

## 2.5 INSTALLATION RESTORATION PROGRAM AOIs DESIGNATED FOR NFA

### 2.5.1 FGGM 03 (OU-6) – WATER TREATMENT PLANT, BUILDING 8688

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

PA ..... 1980-1982

IRA ..... 1994

SWMU Study ..... 1996

Sampling Visits ..... 1999

SI ..... 2001

PA/SI ..... 2010-2014

**Contaminants of Potential Concern:** None identified

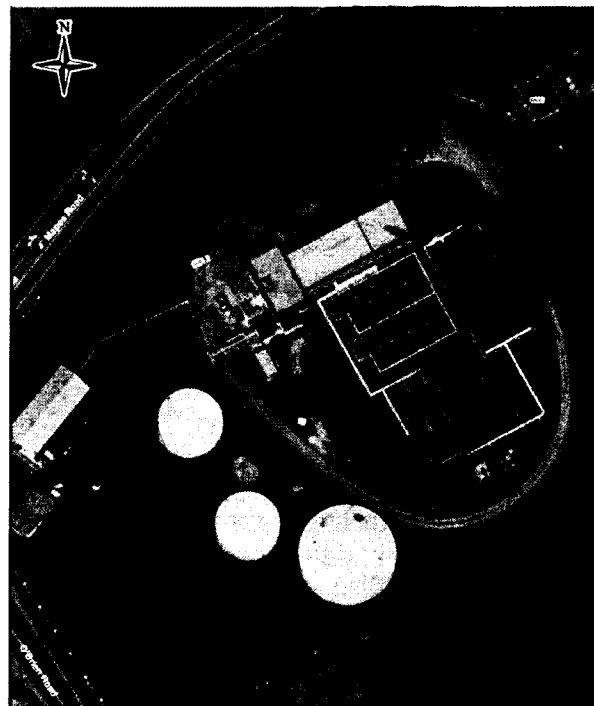
**Media of Concern:** None identified

**Site Location:** Grid F4, in the southwestern portion of the installation at the southeast corner of O'Brien and Mapes Roads.

**Site Description:** Building 8688 – OU-6 (SWMUs 129 and 130) is a water treatment plant constructed in 1941. The facility stores and uses lime and chlorine. An on-site laboratory stores acids and buffers for test purposes.

Building 8688 was identified as a SWMU (BCM, 1996) because of routine discharge of waste to the sanitary sewer.

**Previous Studies:** Over the course of previous investigations at this site, three surface soil samples (plus one duplicate sample) and nine subsurface soil samples were collected and analyzed. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



FGGM 03 - Building 8688 - Water Treatment Plant  
0 40 80 160 Feet

**Current Use:** Water treatment plant

**Current Status:** On 16 July 2012, EPA concurred that analytical results indicate that no CERCLA release has occurred at this AOI. This AOI is closed with respect to CERCLA.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

## 2.5.2 FGGM 05 (OU-2) – FORMER TROOP BOILER PLANT, BUILDING 8481

**Regulatory Driver:** MDE

**Environmental Investigations:**

Evaluation of Groundwater System.....1996  
Groundwater Monitoring .....2001  
Well Removal/Replacement.....2002  
Groundwater Sampling Event .....2008  
Site Model and Assessment Report....2008

**Contaminants of Potential Concern:** Benzene, toluene, ethylbenzene, and xylenes (BTEX); methyl tert-butyl ether (MTBE); naphthalene; caustic soda; sodium sulfite; phosphates; and sodium hydroxide

**Media of Concern:** Soil and groundwater

**Site Location:** Grid F5, in the southwestern portion of the installation, south of Simonds Street and east of Grant Road.

**Site Description:** Former Building 8481 (SWMU 112/113) was constructed in the 1940s as a boiler plant fueled by coal and then converted to fuel oil in the 1960s. This AOI also includes OWS-14 and WR-14 (SWMU 114), a storage shed (no building number) for flammable material, nine USTs, and one 500-gallon diesel fuel tank used for the emergency generator.

In 1991, a 1,500-gallon waste oil UST and a 20,000-gallon No. 2 fuel oil tank failed precision testing. The tanks were excavated, and it was determined that they had been leaking for several years.

**Previous Studies:** Over the course of previous investigations at this site, 29 MWs were installed, a recovery system to remove floating and dissolved product was installed and operated from 1993 to 1997, and a solar-powered oil removal skimmer system was operated from 2001 to 2003. Groundwater was sampled from eight wells in March, April, August, and October 2008, and oil absorbent booms were inserted into four of the MWs.



FGGM 05 - Troop Boiler Plant  
0 25 50 100 Feet

**Current Use:** Vacant land / parking lot

**Current Status:** On 9 December 2009, MDE OCP, having determined that site conditions met site remedial objectives and seven MDE Maryland Environmental Assessment Technology risk factors, issued a Notice of Compliance for FGGM 05.

**Cleanup/Exit Strategy:** This AOI has been closed, the wells have been abandoned, and the system components have been removed. NFA is recommended for this AOI.

### 2.5.3 FGGM 11 (OU-9) – GAS TRAINING BUILDING, BUILDING 73

**Regulatory Driver:** CERCLA **Environmental**

**Investigations:** Comprehensive Site

Assessment (CSA)..... 1997

PA..... 1997

SI..... 1997 to 2011

PA/SI..... 2010 to 2015

**Contaminants of Potential Concern:** Cyanide and “CS” tear gas (ortho-chlorobenzylidene malononitrile)

**Media of Concern:** Soil and groundwater

**Site Location:** Grid H6, in the southeast portion of the installation, in the southwest portion of the CSL.

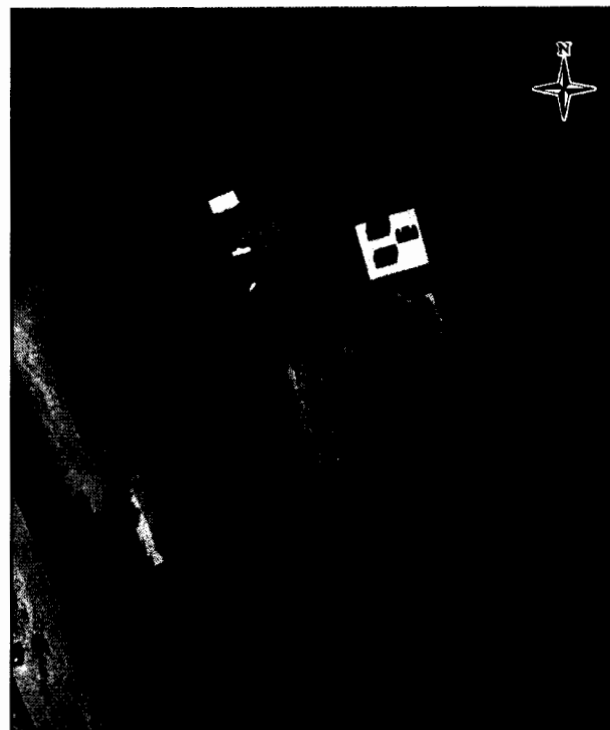
**Site Description:** Building 73 was formerly a Gas Training Building and is identified as a gas chamber on maps from 1976 (Defense Mapping Agency, 1976) and 1980 (USACE, 1980).

Building 73 has concrete floors and walls. Building 73 was used for tear gas training during WWI and respiratory protection training for RCAs from 1965 to 1979. Building 73 was later converted by the Defense Information School for urban facility inspection training.

**Previous Studies:** Seven wipe samples were collected from interior building material surfaces on 14 March 1997 and submitted for laboratory analysis. No tear gas components were reported in the analytical results.

Building 73 has concrete floors and walls, and the tear gas agent was only released inside the building. There is very low potential for the tear gas agent or its decomposition products to have entered the soil or groundwater surrounding Building 73.

Site investigation activities under the PA/SI occurred. Surface soil and groundwater samples were collected and analyzed for CS and cyanide.



FGGM 11 - Gas Training Building 73  
0 40 80 160 Feet

**Current Use:** Storage

**Current Status:** Although no tear gas components were detected on interior building material surfaces, the soil and groundwater surrounding the building have not been tested. Building 73 has been properly decontaminated in a manner appropriate for CS, which is a strong irritant that is incompatible with strong oxidizers. The Final PA/SI Report has been approved.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils and groundwater for this AOI. An NFA Consensus Letter was received from the EPA on January 11, 2016.

## 2.5.4 FGGM 14 (OU-11)–CONTROL HAZARDOUS SUBSTANCE STORAGE FACILITY, BUILDING 6527

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

PA ..... 1980-1982  
SI ..... 1980-2011  
SWMU Study ..... 1996  
Hazardous Waste Closure Report ..... 1999  
Sampling Visit ..... 2000  
Data Gap Investigation ..... 2002  
PA ..... 2011

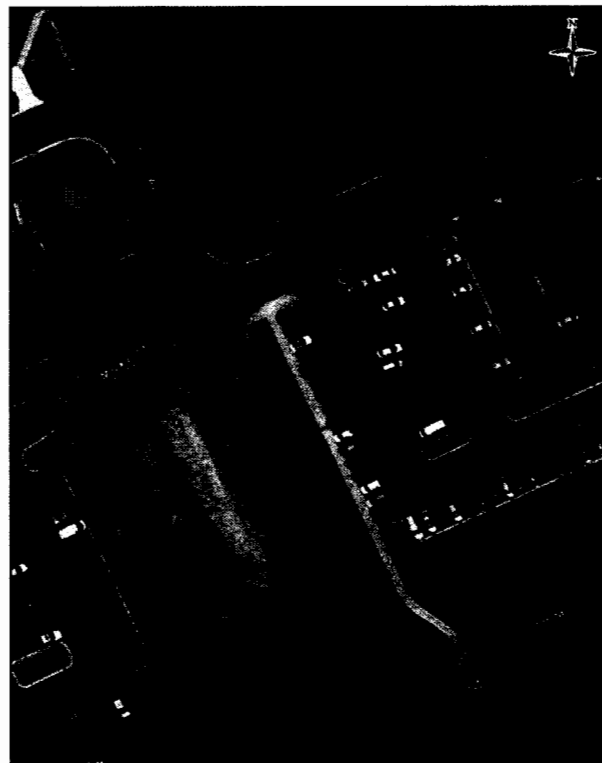
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid F4, in the southern portion of the installation on Taylor Avenue between Simonds and MacKall Streets.

**Site Description:** Former Building 6527 (SWMU 104/OU-11) was used as a short-term (90-day) storage facility for hazardous and non-regulated chemicals before handling and shipping for off-site disposal. The facility handled wastes from the PCB removal program and also accepted paints, oils, oil filters, antifreeze, and fluorescent lights and ballast. The building was demolished in the late 1990s.

**Previous Studies:** Over the course of previous investigations at this AOI, 20 surface soil samples and four subsurface soil samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels. Building 6527 obtained clean closure in 1999.



Building 6527 - Control Hazardous substance Storage Facility  
0 25 50 100 150 200 Feet

**Current Use:** Parking lot

**Current Status:** On 5 October 2011, EPA concurred that analytical results indicate that no CERCLA release has occurred at this AOI. This AOI is closed with respect to CERCLA.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

## 2.5.5 FGGM 19 (OU-14) – ADVANCED WASTEWATER TREATMENT FACILITY

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

PA ..... 1980-1982  
 SI ..... 1980-2012  
 SWMU Study ..... 1996  
 RFA 3<sup>rd</sup> Phase ..... 1999  
 Geophysical Survey ..... 2004  
 PA/SI ..... 2010-2014

**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid E4, in the southwest portion of the installation, approximately 600 feet southwest of State Routes 32 and 198.

**Site Description:** FGGM 19 is identified as the Advanced Wastewater Treatment Facility. FGGM 19 includes Building 9581 – Wastewater Treatment Plant (also identified as SWMU 138). All future environmental investigations and remediation activities for FGGM 19 are covered under SWMU 138.

**Previous Studies:** Over the course of previous investigations at this site, one surface soil sample, 18 subsurface soil samples, and 9 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic and chromium elevate the risk numbers above the site-specific action levels.



**Current Use:** Wastewater treatment facility

**Current Status:** The AEDB-R number FGGM 19 has been administratively closed. All further action at this AOI is covered under SWMU 138.

**Cleanup/Exit Strategy:** NFA for FGGM 19.

## 2.5.6 BUILDINGS 4552 AND 4553 PHOTOGRAPHIC LABORATORY, PART OF FGGM 36 (OU-20)

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study.....	1996
Historic Aerial Photograph Study.....	1996
RFA 3 <sup>rd</sup> Phase.....	1999
Data Gap Investigation.....	2002
PA.....	2011

**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid G4, in the southeastern portion of the installation, northwest of the intersection of Llewellyn and Cooper Avenues.

Building 4553 (Non-SWMU 11) is part of FGGM 36, which also includes Building 6530 (SWMUs 105-108). Building 6530 (SWMUs 105-108) is discussed separately.

**Site Description:** Building 4553 was not identified as a SWMU in the 1996 SWMU study (BCM, 1996) because no routine waste is stored or produced at this AOI. However, it was investigated as part of the SWMU study and included in the SWMU report (BCM, 1996). BCM indicated there were no spills or reported releases in the area surrounding this building.

Current and past use of Building 4553 consisted of support facilities, primarily administrative, for intelligence agencies. It typically stored cleaners and office supplies. There are no reports of pesticides being stored at this building.

**Previous Studies:** There had never been a release of hazardous substances resulting in contamination to soil, groundwater, or surface water at this AOI (BCM, 1996). The EPA reviewed historic aerial photographs (from 1938 to 1995) of Fort Meade and found no stains, stressed vegetation, debris, solid waste, or other areas of environmental concern at this AOI (EPA 1996).



**Current Use:** Administrative

**Current Status:** EPA approved NFA for this AOI on 20 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

## 2.5.7 FGGM 71 (OU-26) – EX INDOOR RANGE, FORMER BUILDING 6522 (SWMUs 151 AND 152)

**Regulatory Driver:** CERCLA

### Environmental Investigations:

SWMU Study ..... 1996

Historic Aerial Photograph Study ..... 1996

Sampling Visits ..... 2000

PA/SI ..... 2010-2015

**Contaminants of Potential Concern:** Metals

**Media of Concern:** Soil and groundwater

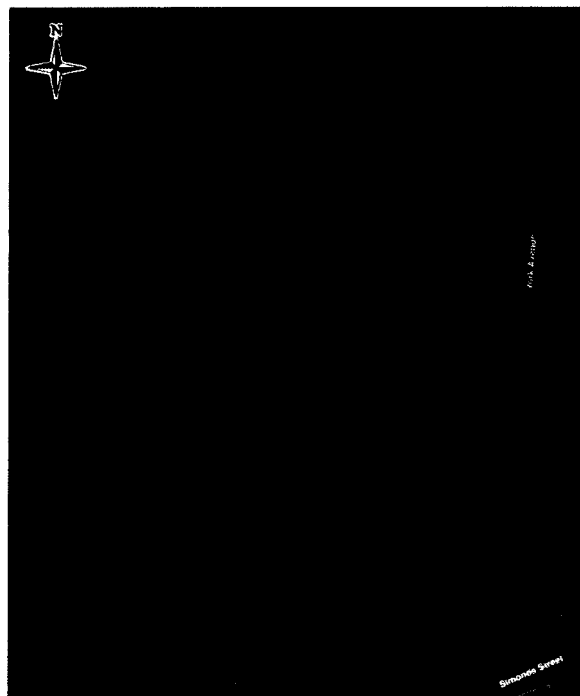
**Site Location:** Grid F4, in the southern portion of the installation, 100 feet northwest of the intersection of York Avenue and Simonds Street.

**Site Description:** Building 6522 (SWMUs 151 and 152) was identified as a past SWMU in the 1996 SWMU study (BCM, 1996) because it was formerly used as an indoor small arms target range, and disposal practices for the impact range were unknown. There were no spills or reported releases identified by BCM during the SWMU study (BCM, 1996). Building 6522 was demolished in the late 1990s. A 550-gallon heating oil UST was located outside the eastern wall of Building 6522. The UST was removed in August of 1995 (Versar, 2003).

**Previous Studies:** This AOI was not identified in the EPA (1996) review of historic aerial photographs; no stains, stressed vegetation, standing liquid, or other environmental concerns were identified at this location.

Over the course of previous investigations at this site, four subsurface soil samples and three groundwater samples were collected and analyzed. Based on a risk analysis of the analytical results, mercury, arsenic, and chromium elevate the risk numbers above the site-specific action levels.

In 2013, as part of the PA/SI, one groundwater monitoring well was installed, and groundwater samples and surface soil samples were collected and analyzed for metals.



FGGM 71 (OU-26) - EX Indoor Range, Building 6522  
0 25 50 100 Feet

**Current Use:** Parking lot

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils and groundwater for this AOI.

## 2.5.8 FGGM 75 (OU-30) – UNDERGROUND STORAGE TANKS PRIOR TO 1984

<p><b>Regulatory Driver:</b> CERCLA</p> <p><b>Environmental Investigations:</b></p> <p>Environmental Restoration, Army..... 2008</p> <p>UST Facility Summary ..... 2010</p> <p>PA..... 2012</p> <p><b>Contaminants of Potential Concern:</b> Gasoline, diesel fuel, and oil</p> <p><b>Media of Concern:</b> Soil</p> <p><b>Site Location:</b> Underground Storage Tanks prior to 1984 were located throughout the installation.</p> <p><b>Site Description:</b> In July 1985, the EPA promulgated 40 Code of Federal Regulations 280, which required the registration of all USTs used for dispensing regulated substances. The State of Maryland published UST regulations in 1984. USTs had to be registered, and among the requirements for UST registration are tank and line leak detection requirements, spill and overfill protection equipment, and maintaining tank release detection records. FGGM 75 consists of USTs prior to 1984 that had leaked or potentially leaked product to the environment. Since 1984, all USTs under the control of FGGM DPW have been closed, and leaking USTs have been remediated. The installation-wide conversion from heating oil to natural gas resulted in the majority of these UST closures. Only seven active USTs are currently on installation under the jurisdiction of FGGM DPW. All seven USTs were installed after 1984.</p> <p><b>Previous Studies:</b> Numerous samples were collected throughout the time the USTs were closed out. Results were presented to MDE with closeout documents.</p>	<p>No image available - these are multiple sites throughout the installation.</p> <p><b>Current Use:</b> The sites of the former USTs are used for installation support functions.</p> <p><b>Current Status:</b> The MDE has no open UST cases with FGGM DPW. EPA approved NFA for this AOI on 23 February 2012.</p> <p><b>Cleanup/Exit Strategy:</b> Not applicable; NFA is required for this AOI.</p>
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## 2.5.9 FGGM 95 (OU-45) – FORMER LANDFILL SITES

### 2.5.9.1 FGGM 95 (OU-45) – FILL – 1988

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study..... 1996

PA/SI ..... 2010-2015

**Contaminants of Potential Concern:** VOCs, SVOCs, and metals

**Media of Concern:** Soil

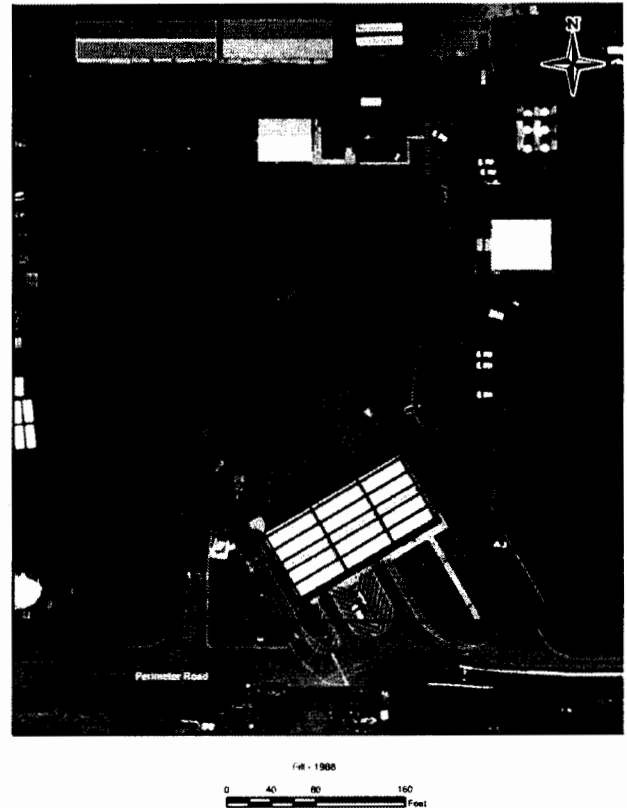
**Site Location:** Grid E4, near the southwest perimeter of the installation, north of Perimeter Road and west of O'Brien Road.

**Site Description:** Fill – 1988 is an AOI because the EPA (1996) aerial photographic investigation of Fort Meade labeled potential fill in this area in a 1988 historic aerial photograph; however, the potential fill was not discussed in the text of the EPA report. Fill was also labeled in this area on the 1995 aerial photograph, but it also was not discussed in the text of the report (EPA, 1996).

No stained soils or stressed vegetation were identified at this location or its surroundings on any of the historic aerial photographs. In the 1984 aerial photograph, this AOI and the adjacent square lot to the northwest are graded, possibly as part of site preparation for construction. By 1988, a building was constructed on the adjacent lot to the west, and the "Fill – 1988" lot is covered with piles of dirt. By 1993, the AOI was graded, but by 1996, additional fill was brought in, most likely to complete leveling of the site. By 1999, the AOI is again leveled, and by 2002 a building and parking lot are constructed on this AOI.

**Previous Studies:** A historic aerial photograph study was completed in 1996. No previous sampling was undertaken.

As part of the PA/SI, subsurface soil samples were collected and analyzed for VOCs, SVOCs, and metals.



**Current Use:** Administrative, parking lot, and grass areas.

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils for this AOI.

### 2.5.9.2 FGGM 95 (OU-45) – PERSHING HILL ELEMENTARY SCHOOL BURN PIT STOCKPILE

**Regulatory Driver:** CERCLA/MDE Solid Waste Program

**Environmental Investigations:**

Burn Pit.....2009

**Contaminants of Potential Concern:** Metals and DRO. Possibly dioxin and furan.

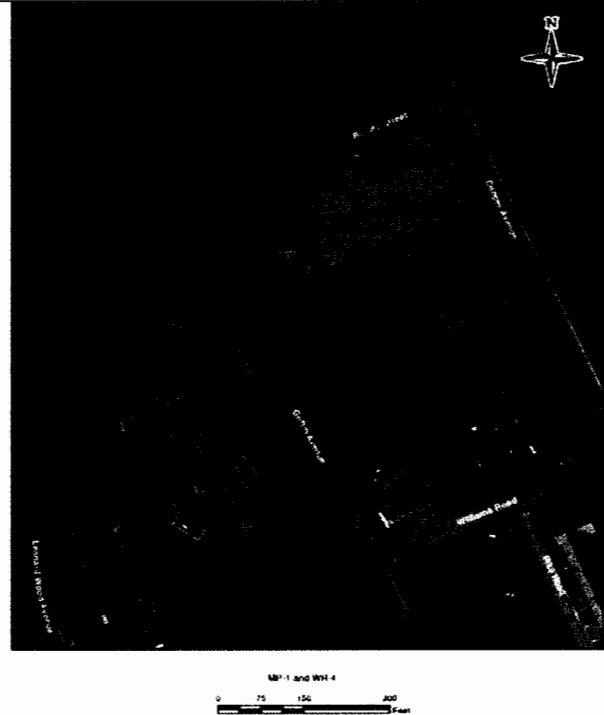
**Media of Concern:** Soil stockpile.

**Site Location:** Grid I5, north of Lokus Road in the northern portion of the CSL.

**Site Description:** A burn pit was discovered during the reconstruction of Pershing Hill Elementary School. The pit was probably dug in the late 1950s or early 1960s during the construction of the original school to place and burn the trees that were cut for the school construction.

**Previous Studies:** The pit was sampled for a variety of parameters, including petroleum hydrocarbons, dioxins, and furans, with trace levels of dioxins and furans detected along with low levels of petroleum hydrocarbons.

The contents of the burn pit were removed and stockpiled on-site (approximately 25,000 cubic yards). The stockpile exceeded site capacity and was transported to a permitted and controlled location at the CSL. The soil stockpile was re-sampled and disposed at an approved off-post facility.



**Current Use:** Soil stockpile

**Current Status:** The stockpiled soil from the Pershing Hill Elementary School Burn Pit was disposed of off-post.

**Cleanup/Exit Strategy:** This site is within the Cell 3 (FGGM-97) footprint, and an RI/FS is currently underway (Refer to section 2.1.16). NFA is recommended for the stockpiled soil from the Pershing Hill Elementary School Burn Pit because it was disposed of off-post.

### 2.5.9.3 FGGM 95 (OU-45) – POSSIBLE DUMP SITE C – 1957

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996

Geophysical Investigation ..... 2004

PA ..... 2011

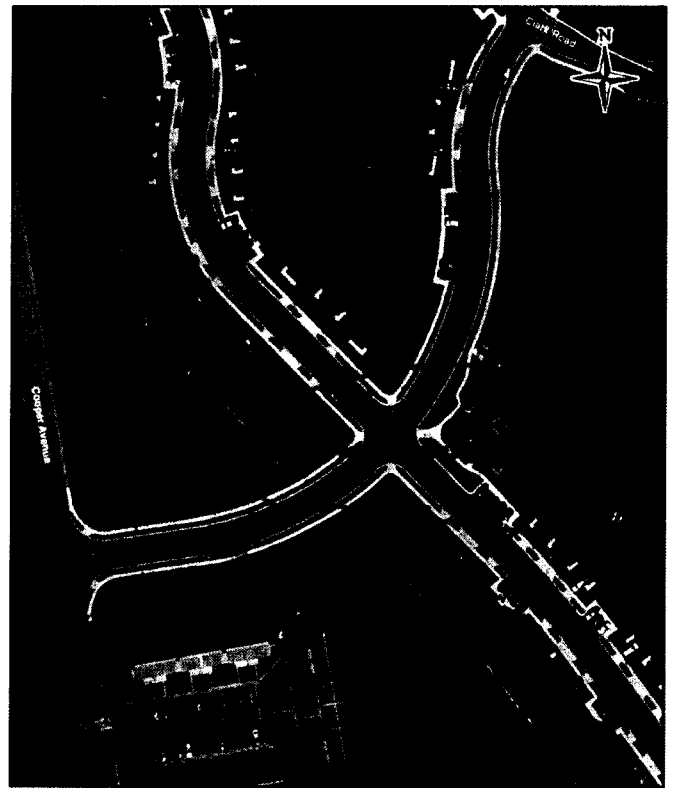
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid F2, in the northern portion of the installation, adjacent to the intersection of Evans Court and Leslie Road.

**Site Description:** Possible Dump Site C – 1957 was identified as an AOI because the EPA (1996) historic aerial photograph study of the installation listed “possible solid waste” at this location during an analysis of a 1957 aerial photograph. The EPA (1996) study did not identify stained soils or stressed vegetation in this area in any of the historic aerial photographs.

**Previous Studies:** A geophysical investigation of Possible Dump Site C – 1957 did not identify any geophysical anomalies on the AOI, except for a few features associated with utilities (Versar, 2004a). There is little geophysical evidence to suggest that this AOI is a former dump or landfill.



Possible Dump Site C - 1957  
0 50 100 200 Feet

**Current Use:** Grass, trees, portions of Evans Court and Leslie Road, and buildings.

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

#### 2.5.9.4 FGGM 95 (OU-45) – POSSIBLE DUMP SITE D – 1957

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996

Geophysical Investigation ..... 2004

PA ..... 2011

**Contaminants of Potential Concern:** None identified

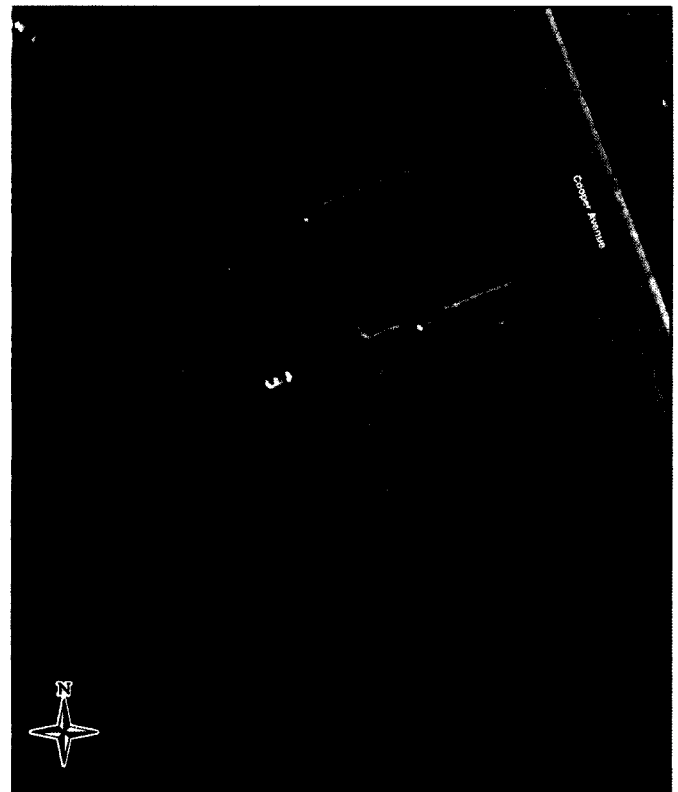
**Media of Concern:** None identified

**Site Location:** Grid F2, in the northern portion of the installation, on Riordan Court.

**Site Description:** Possible Dump Site D – 1957 was identified as an AOI because the EPA (1996) historic aerial photograph study of the installation listed “possible solid waste” at this location during an analysis of a 1957 aerial photograph. The EPA (1996) study did not identify stained soils or stressed vegetation in this area in any of the historic aerial photographs.

**Previous Studies:** A geophysical investigation of Possible Dump Site D – 1957 did not identify any geophysical anomalies at the AOI that were not associated with utilities or buildings (Versar, 2004).

**Current Use:** Site D – 1957 encompasses Riordan Court and the lawns and driveways associated with four small houses.



Possible Dump Site D - 1957  
0 25 50 100  
Feet

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable: NFA is required for this AOI.

#### 2.5.9.5 FGGM 95 (OU-45) – POSSIBLE DUMP SITE F – 1957

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996

Geophysical Investigation ..... 2004

PA/SI ..... 2010-2014

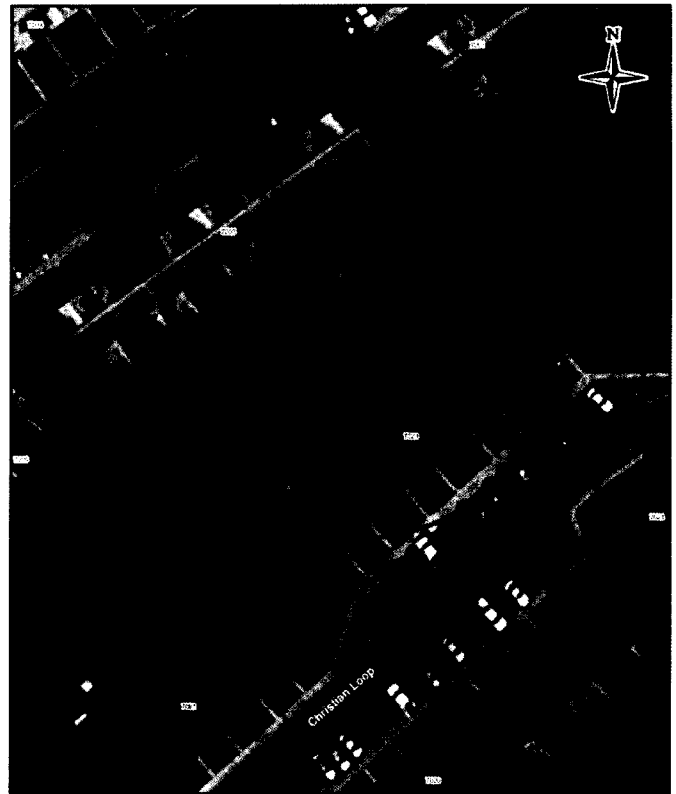
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid E3, in the western portion of the installation, between Eubanks Loop and Christian Loop.

**Site Description:** Possible Dump Site F – 1957 was identified as an AOI because the EPA (1996) historic aerial photograph study of the installation listed “possible solid waste” at this AOI during an analysis of a 1957 aerial photograph. In the analysis of the 1963 aerial photograph, EPA stated that “the possible accumulation of solid waste observed in 1957 is no longer present due to construction of new housing.” The EPA (1996) study did not identify stained soils or stressed vegetation in this area in any of the historic aerial photographs.

**Previous Studies:** A geophysical investigation of Possible Dump Site F – 1957 provided little evidence that the AOI contains metallic or conductive buried waste. There is little geophysical evidence to suggest that this AOI is a former dump or landfill (Versar, 2004).



Possible Dump Site F - 1957  
0 25 50 100 Feet

**Current Use:** The AOI is currently a grass lawn bordered to the north and south by townhouses.

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

### 2.5.9.6 FGGM 95 (OU-45) – POSSIBLE DUMP SITE G – 1957

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study.....1996

Geophysical Survey .....2004

PA/SI.....2010-2015

**Contaminants of Potential Concern:** VOCs, SVOCs, and metals

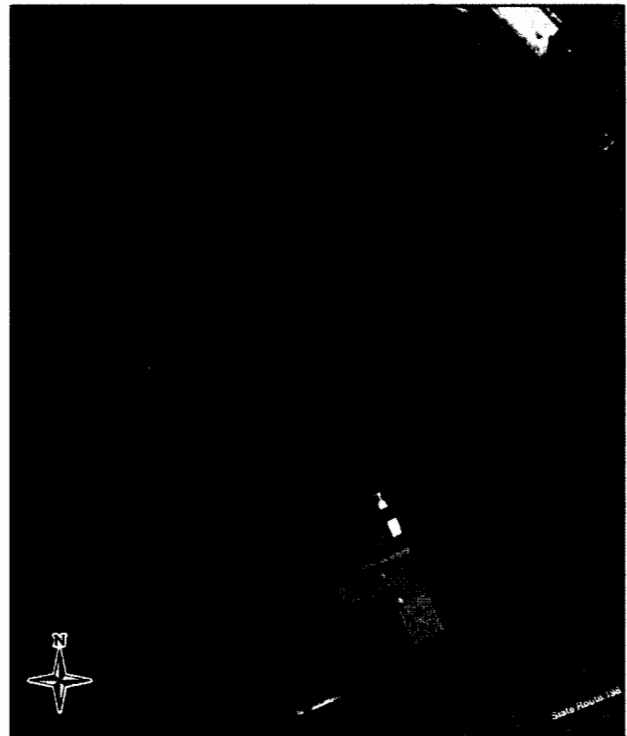
**Media of Concern:** Soil

**Site Location:** Grid E5, in the southwest portion of the installation, just southwest of the pumping station where the Little Patuxent River crosses Maryland Route 198.

**Site Description:** Possible Dump Site G – 1957 was identified as an AOI because the EPA (1996) study of the installation listed “possible dump” at this AOI during an analysis of a 1957 aerial photograph. In an analysis of a 1963 aerial photograph, the EPA labeled the AOI as a “re- vegetated dump site.”

**Previous Studies:** A geophysical investigation of Possible Dump Site G – 1957 provided little evidence that the AOI contains metallic or conductive buried waste. There is little geophysical evidence to suggest that this AOI is a former dump or landfill (Versar, 2004).

As part of the PA/SI, subsurface soil samples were collected and analyzed for VOCs, SVOCs, and metals.



Possible Dump Site G - 1957  
0 30 60 120 Feet

**Current Use:** Trees and grass

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils for this AOI.

### 2.5.9.7 FGGM 95 (OU-45) – POSSIBLE DUMP SITES – 1970

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study..... 1996

PA/SI ..... 2010-2015

**Contaminants of Potential Concern:** None identified

**Media of Concern:** Soils

**Site Location:** Grid E2, in the northwest portion of the installation, east of the Baltimore-Washington Parkway.

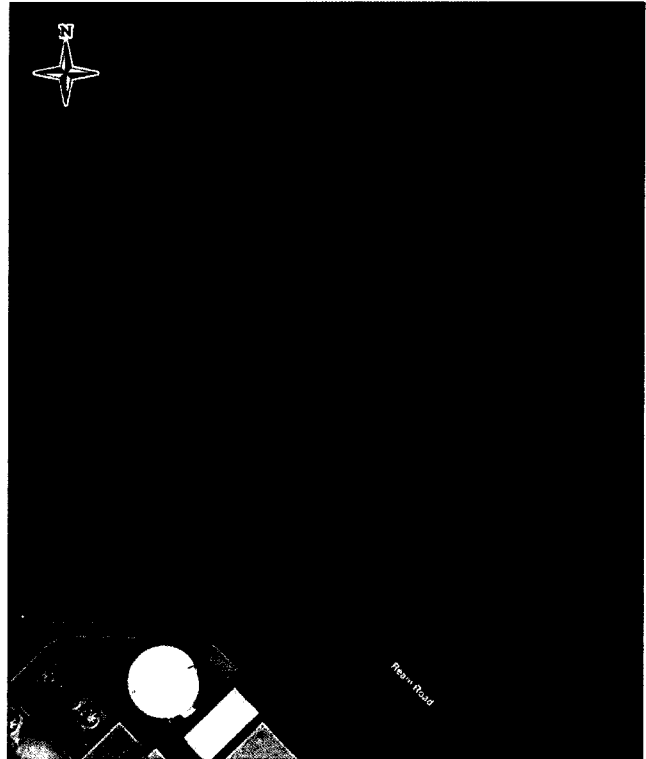
**Site Description:** Possible Dump Sites – 1970 were identified as an AOI because the EPA (1996) historic aerial photograph study of the installation listed “Possible Dump Location” at these locations during an analysis of a 1970 aerial photograph.

The EPA (1996) study did not identify stained soils or stressed vegetation in this area in any of the historic aerial photographs.

**Previous Studies:** No previous sampling or geophysical investigations have been conducted at this AOI.

Possible Dump Site – 1970 has a long history of probable housing and farming. Agricultural activity may have been mistaken for dumping in the February 1970 aerial.

As part of the PA/SI, test pits were excavated, and subsurface soil samples were collected and analyzed for VOCs, SVOCs, metals, pesticides, herbicides, TPH-GRO, TPH-DRO, and PCBs.



Possible Dump Sites - 1970  
0 50 100 200 Feet

**Current Use:** Wooded

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils for this AOI.

### 2.5.9.8 FGGM 95 (OU-45) – SITE M - PARCEL 1

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996

Geophysical Investigation ..... 2004

EBS ..... 2004

PA/SI ..... 2007

PA/SI ..... 2011

**Contaminants of Potential Concern:** VOCs, metals, and explosives

**Media of Concern:** Groundwater

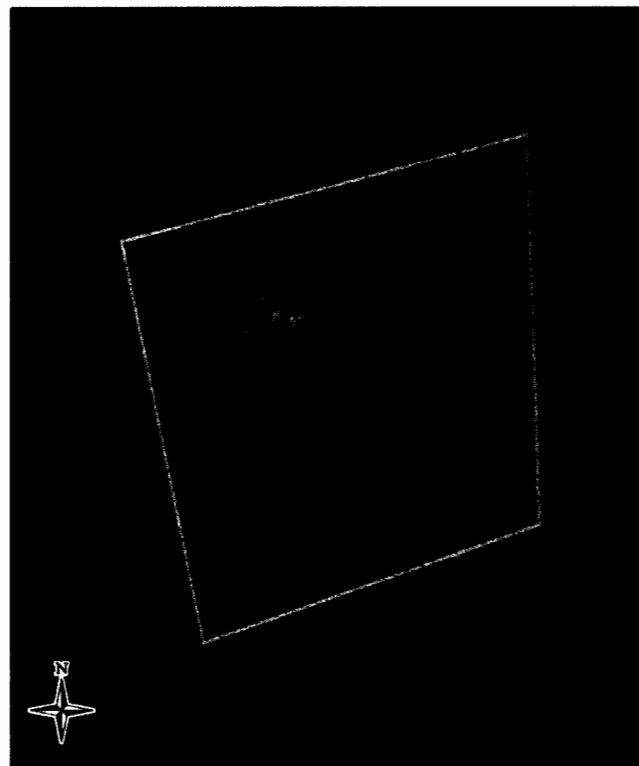
**Site Location:** Grid F3, in the 8800 Block, east of O'Brien Road.

**Site Description:** This location was initially identified because a review of a 1938 aerial photograph identified it as a possible dump (EPA, 1996).

**Previous Studies:** A geophysical investigation (Versar, 2004) confirmed this AOI as a landfill.

Over the course of previous investigations at this site, one surface soil sample, 16 subsurface soil samples and one groundwater sample were collected and analyzed. Based on a risk analysis of the analytical results, iron, cobalt, manganese, and arsenic elevate the risk numbers above the site-specific action levels. Methylene chloride was detected above its MCL.

As part of the 2011 SI, three groundwater samples were collected and analyzed for VOCs, metals, and explosives.



Site M - Parcel 1  
0 50 100 200 Feet

**Current Use:** NSA Construction site

**Current Status:** Based on the results of the 2011 SI, EPA approved NFA for this AOI on 17 February 2012.

**Cleanup/Exit Strategy:** Not applicable; NFA is recommended for this AOI.



#### 2.5.9.9 FGGM 95 (OU-45) – SITE M - PARCEL 2

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996  
EBS ..... 2004  
Geophysical Survey ..... 2004  
PA/SI ..... 2007  
PA/SI ..... 2011

**Contaminants of Potential Concern:** VOCs, metals, herbicides, pesticides, explosives, PAH, furans, and dioxins

**Media of Concern:** Soil and groundwater

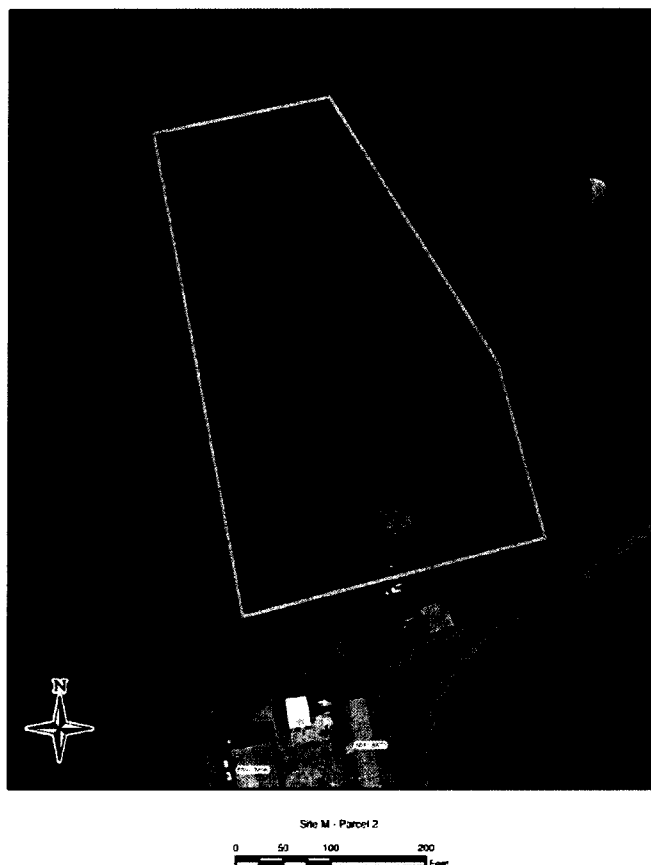
**Site Location:** Grid F3, in the 8800 Block, north of the intersection of Zimborski and Taylor Avenues.

**Site Description:** This location was initially identified because the EPA (1996) historic aerial photograph study suggests there may have been a solid waste landfill at this location in the 1943 aerial photograph.

**Previous Studies:** Over the course of previous investigations at this site, 13 subsurface soil samples and three groundwater samples (one total and two dissolved) were collected and analyzed. Based on a risk analysis of the analytical results, arsenic, vanadium, manganese, cobalt, and iron elevate the risk numbers above the site-specific action levels. Methylene chloride was detected above its MCL.

Fill material containing ash was encountered at 6 of the 10 direct push locations.

As part of the 2011 SI, four surface soil samples were collected and analyzed for VOCs, metals, herbicides, pesticides, explosives, PAH, furans, and dioxins and four subsurface soil samples were collected and analyzed for metals, PAH, furans, and dioxins.



**Current Use:** NSA Construction site

**Current Status:** Based on the results of the 2011 SI, EPA approved NFA for this AOI on 17 February 2012.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

### 2.5.9.10 FGGM 95 (OU-45) – SITE M - PARCEL 3

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study 1996 SWMU

Study ..... 1996

EBS ..... 2004

Geophysical Survey ..... 2004

PA/SI ..... 2007

PA/SI ..... 2010-2012

Environmental Site Assessment ..... 2013

**Contaminants of Potential Concern:** VOCs, SVOCs, and metals

**Media of Concern:** Soil and groundwater

**Site Location:** Grid F3, within the golf course complex, west of Zimborski Avenue.

**Site Description:** Former Building 8880 (SWMU 131/132), constructed in 1949, was a storage area and a pesticide mixing area from 1955 to the late 1970s. It was demolished prior to 2005. Building 8860 (SWMU 133), constructed in 1949, is used for topsoil and chemical storage. The pump house is in the eastern half of the building and contains a well that distributed treated effluent water from the sanitary sewer to the sprinkler system for the former golf course.

Buildings 8870 (SWMU 134) and 8890A (SWMU 136) are used for storage. Building 8890 (SWMU 135) is a mechanic shop and storage area. Building 8891 (SWMU 137) is a storage building/ maintenance area. Building 8881 is a storage/ maintenance building. Building 21 is a metal storage locker used to store hazardous waste awaiting disposal. There is also a storage shed/rollaway (no building number) north of Building 8890 that is used to store old tires and a lawnmower. Four ASTs and one UST were associated with the maintenance buildings.

**Previous Studies:** Over the course of previous investigations at this site, 8 surface soil samples, 35 subsurface soil samples, and 10 groundwater samples were collected and analyzed. Based on a risk analysis of the analytical results, arsenic, benzo(a)pyrene, mercury, heptachlor epoxide, and 1,1,2,2-tetrachloroethane elevate the risk numbers above the site-specific action levels.



Site M - Parcel 3  
0 40 80 160 Feet

**Current Use:** NSA Construction site

**Current Status:** This AOI received NFA status on 17 February 2012 based on site conditions at that time. EPA approved NFA for this AOI on 25 June 2015.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

#### 2.5.9.11 FGGM 95 (OU-45) – SITE M - PARCEL 4

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996

EBS ..... 2004

PA ..... 2011

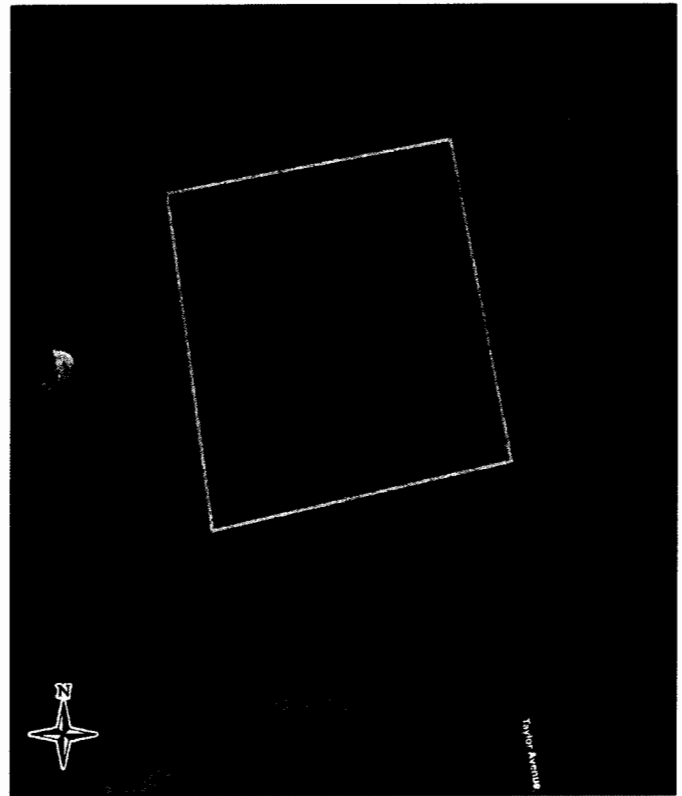
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid F3, east and west of Taylor Avenue.

**Site Description:** This location was initially identified because ground scarring was observed at this AOI during a review of a 1943 historic aerial photograph (Berger EA, 2004). A “disturbance” was observed in the northeastern part of this AOI in the 1952 through 1995 historic aerial photographs (Berger EA, 2004).

**Previous Studies: Results:** Over the course of previous investigations at this AOI, two subsurface soil samples and one groundwater sample were collected and submitted for laboratory analysis.



Site M - Parcel 4  
0 40 80 160 Feet

**Current Use:** NSA Construction site

**Current Status:** EPA approved NFA for this AOI on 7 January 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

### 2.5.9.12 FGGM 95 (OU-45) – SITE M - PARCEL 5

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996

EBS ..... 2004

PA ..... 2011

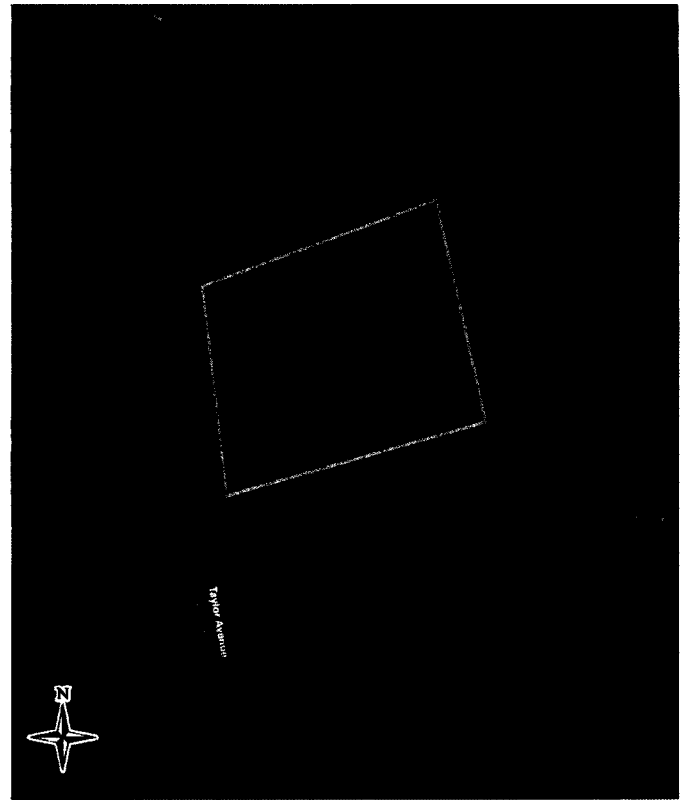
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid F3, east of Taylor Avenue.

**Site Description:** The EBS identified this location because a concrete foundation for an out building and a telephone pole were observed in a wooded area. The foundation was reportedly adjacent to a former farm house and was identified as a “pit” in the EBS. The concrete foundation and telephone pole were observed during the December 2003 Site Investigation that was conducted as part of the EBS. Upon review of the Site Investigation, the concrete foundation is probably from an old out building near a former barn. It was described as “Building 6927 Foundation” in the description of AOI 11. AOI 11 was later renamed Parcel 5.

**Previous Studies:** Over the course of previous investigations at this site, one subsurface soil sample was collected and analyzed.



Site M - Parcel 5  
0 25 50 100  
Feet

**Current Use:** NSA Construction site

**Current Status:** EPA approved NFA for this AOI on 7 January 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

### 2.5.9.13 FGGM 95 (OU-45) – SITE M - PARCEL 6

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study .....	1996
Geophysical Survey .....	2004
EBS .....	2004
PA/SI .....	2007
PA .....	2011

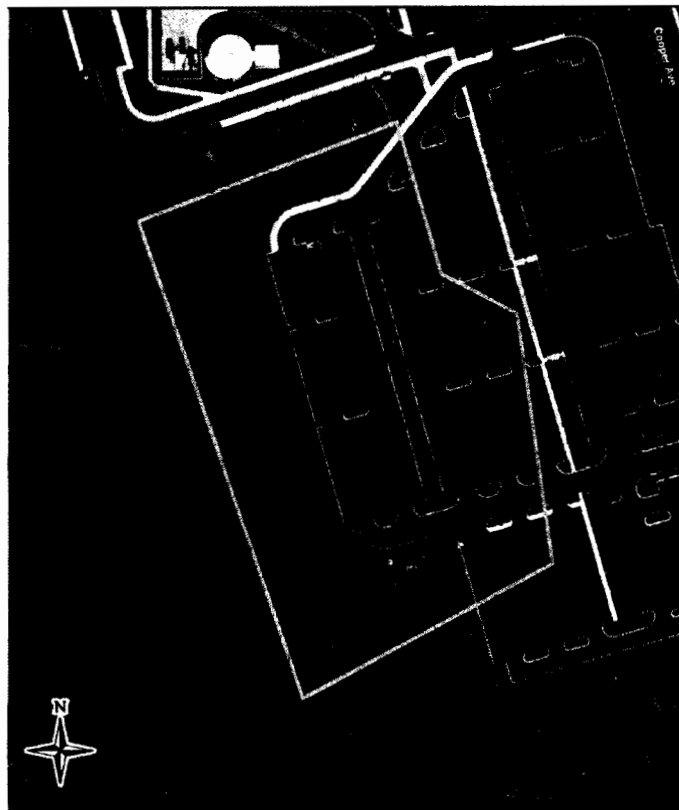
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid F3/F4, northwest of the intersection of Mapes Road and Cooper Avenue.

**Site Description:** The EBS identified ground disturbance/ground scar at this location in historic aerial photographs (Berger EA, 2004). The EPA (1996) historic aerial photograph review of the same location did not identify anything they would classify as a disturbance or scarring, in fact, the EPA (1996) report did not identify any AOI at this location. In the sandy coastal plain sediments typical of this location, ground can be easily disturbed by driving over an area with thin vegetation. The Patapsco sands crop out at this location. The Patapsco sands are a white to buff to vari- colored sand that shows up as light spots when exposed on historic aerial photographs. A thin covering of grass covers this location in most of the historic aerial photographs. The ground disturbance/scarring could be from repeated vehicle or foot traffic. Digging, trenching, filling, or any other activity that would suggest landfilling or dumping was not identified for this location.

**Previous Studies:** Over the course of previous investigations at this site, two subsurface soil samples and one groundwater sample were collected and analyzed.



Site M Parcel 6  
0 70 140 280 Feet

**Current Use:** Parking lot.

**Current Status:** EPA approved NFA for this AOI on 7 January 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

#### 2.5.9.14 FGGM 95 (OU-45) – SITE M - PARCEL 7

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

EBS ..... 2004

PA/SI ..... 2007

PA/SI ..... 2011

**Contaminants of Potential Concern:** VOCs, SVOCs, metals, pesticides, and explosives

**Media of Concern:** Groundwater

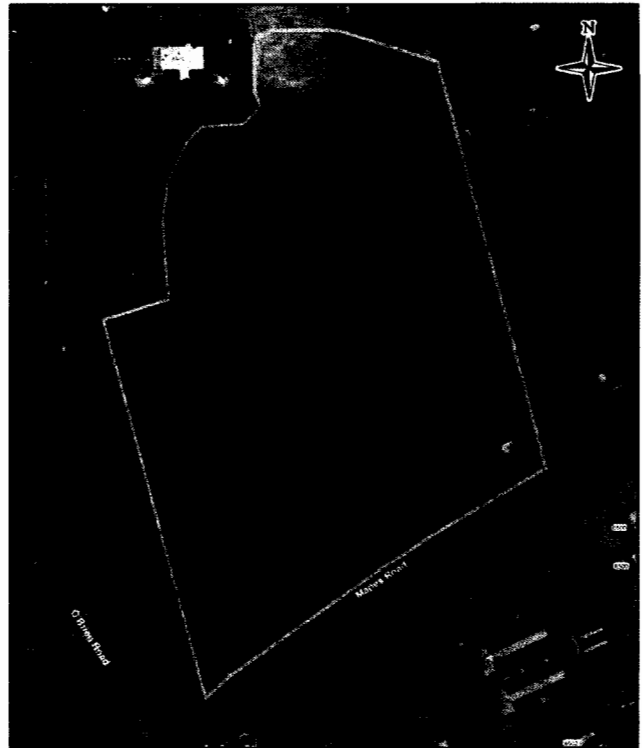
**Site Location:** Grid F4, northwest of the intersection of Mapes Road and Taylor Avenue.

**Site Description:** The 2004 EBS (Berger EA, 2004) suggested that a possible landfill may be located in the northern portion of this site, north of former Parks Golf Course hole 14 and east of the NSA property. This assessment is based on ground scars observed in historic aerial photographs and surficial debris (metal cans, pipes, and a fire hydrant) seen at this location during a 2004 site visit (Berger EA, 2004).

This AOI was also a former Mortar Range. This AOI is the IRP portion of the Mortar Range; the MMRP portion is covered in Section 2.2.1. The foldout map in the pocket of the SMP containing all SMP AOIs shows the overlap of this AOI with the MMRP AOIs.

**Previous Studies:** Over the course of previous investigations at this site, 40 surface soil samples (and four duplicate surface soil samples), 21 subsurface soil samples, and four groundwater samples (plus one duplicate) were collected and analyzed. Based on a risk analysis of the analytical results, heptachlor epoxide, cobalt, and manganese elevate the risk numbers above the site-specific action levels. Methylene chloride was detected above its MCL.

As part of the 2011 SI, two groundwater samples were collected and analyzed for VOCs, SVOCs, pesticides, and explosives. No compounds exceeded risk levels.



Site M - Parcel 7  
0 200 400 600 Feet

**Current Use:** Vacant land / NSA Construction site

**Current Status:** Based on the results of the 2011 SI, EPA approved NFA for this AOI on 17 February 2012.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

### 2.5.9.15 FGGM 95 (OU-45) – SITE M - PARCEL 8

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study.....1996

EBS.....2004

PA/SI.....2007

PA/SI.....2010-2014

Focused Enhanced Site

Investigation (FESI).....9/2012 to 11/2012

FESI Final Report.....5/2013

**Contaminants of Potential Concern:** Metals

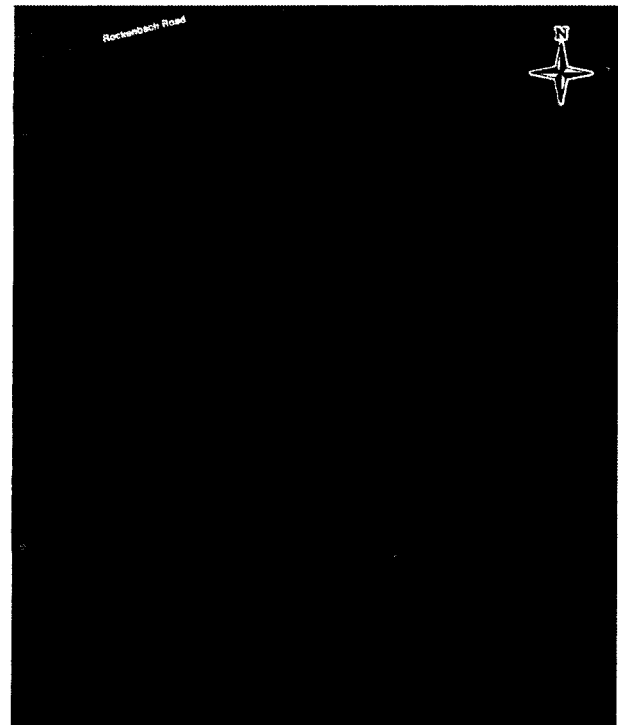
**Media of Concern:** Soil and groundwater

**Site Location:** Grid F3, in the 8800 Block, 500 feet southeast of the intersection of Rockenbach and 29<sup>th</sup> Division Roads.

**Site Description:** This location was identified in the EBS as a possible dump site during a review of a 1938 aerial photograph (Berger EA, 2004).

**Previous Studies:** Over the course of previous investigations at this AOI, one surface soil sample, six subsurface soil samples, and two groundwater samples (one total metals and one dissolved metals) were collected and analyzed. Based on a risk analysis of the analytical results, antimony, arsenic, cobalt, nickel, and iron elevate the risk numbers above the site-specific action levels. Lead was detected above its MCL.

An EPA-approved soil removal effort was conducted.



Site M - Parcel 8  
0 40 80 160 Feet

**Current Use:** NSA Construction site

**Current Status:** Based on the closure report for Site M Parcel 8, EPA approved NFA for this AOI on 16 December 2013.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

#### 2.5.9.16 FGGM 95 (OU-45) – SITE M - PARCEL 9

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study..... 1996

EBS..... 2004

PA/SI..... 2007

PA..... 2011

**Contaminants of Potential Concern:** None identified

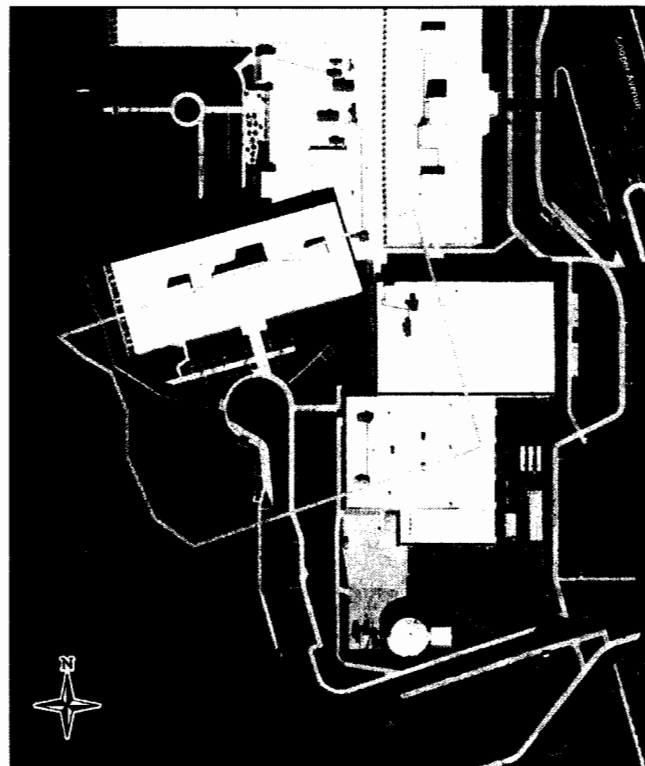
**Media of Concern:** None identified

**Site Location:** Grid F3, northwest of the intersection of Cooper Avenue and Reece Road.

**Site Description:** Disturbed ground was identified at this location in a 1938 historic aerial photograph, and ground scarring/disturbance was identified here in a 1943 aerial (Berger EA, 2004). Ground scarring/disturbance, stressed vegetation, or staining was not identified at this location in the EPA (1996) historic aerial photograph study of the installation.

**Previous Studies:** A geophysical investigation (Berger EA, 2004) was conducted to inspect the disturbed ground and ground scarring. The geophysical investigations of this area revealed some anomalies.

As part of the EBS for this site, four subsurface soil samples and two groundwater samples were collected and analyzed for the anomalies that could not be attributed to utilities or the cart path.



Site M - Parcel 9  
0 75 150 300  
Feet

**Current Use:** Office building

**Current Status:** EPA approved NFA for this AOI on 7 January 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.



### 2.5.9.17 FGGM 95 (OU-45) – SITE Y

**Regulatory Driver:** CERCLA/MDE Solid Waste Program

**Environmental Investigations:**

MDE Site Number SC-O-12-SW-251....2012

Waste Characterization Report .....2012

Draft Final Site Y Cleanup Plan.....2013

Confirmatory Sampling Data Summary Report  
2013

PA/SI .....2014-2016

Final Removal Completion Report.....2015

**Contaminants of Potential Concern:** VOCs, metals, and pesticides

**Media of Concern:** Unknown (investigation pending)

**Site Location:** Grid H4, southwest of the intersection of 9<sup>th</sup> Street and Ernie Pyle Road.

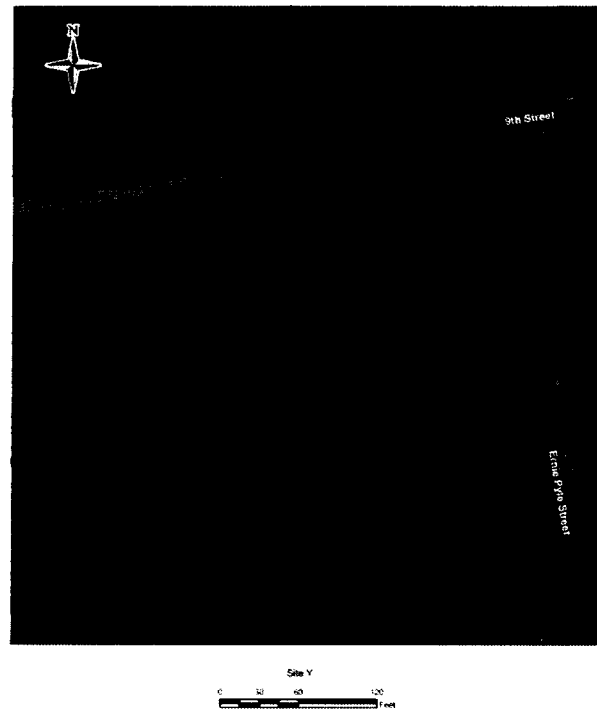
**Site Description:** Site Y was identified as an AOI when waste was observed on the ground surface in 2012. Site Y is a 0.9-acre, uncontrolled dumpsite where demolition debris and soil from an unknown source were placed between the years of 2000 and 2001.

In 2012, MDE issued a Site Complaint Number concerning the debris at Fort Meade Site Y.

**Previous Studies:** Site Y has undergone an investigation and remediation.

On 29 April 2013, soil samples were collected at Site Y to characterize the soil for waste disposal.

During the removal action at Site Y, two types of debris were observed at the site. The northern third of the site consisted primarily of construction debris; the southern two thirds contained what appeared to be landfill debris consisting of bottles, china, refractory brick, and demolition debris. There was an estimated 3,500 cubic yards of soil and demolition debris disposed of in the Site Y debris pile. After removal and disposal of the waste piles, surface soil samples were collected and analyzed. Confirmation sampling of soils remaining in place were collected and analyzed for SVOCs, VOCs, metals, mercury, herbicides, and pesticides.



Due to elevated benzo(a)pyrene levels at two separate locations, additional soils were excavated. Confirmation samples indicated that these two sources were removed but another exceedance of benzo(a)pyrene was found on the new south wall. It was determined that no further excavation was required to address benzo(a)pyrene.

The PA/SI was initiated in the summer of 2014. Soil and groundwater samples were collected and analyzed to assess current site conditions.

**Current Use:** The debris at Site Y has been removed. This AOI is currently an open field.

**Current Status:** The Final Site Y Addendum to the Southeast PA/SI Report was approved in March 2016. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI recommended NFA for surface soil, subsurface soil, and groundwater.

### 2.5.9.18 FGGM 95 (OU-45) – SMALL PIT – 1952

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996

PA/SI ..... 2007

PA/SI ..... 2010-2015

**Contaminants of Potential Concern:** None identified

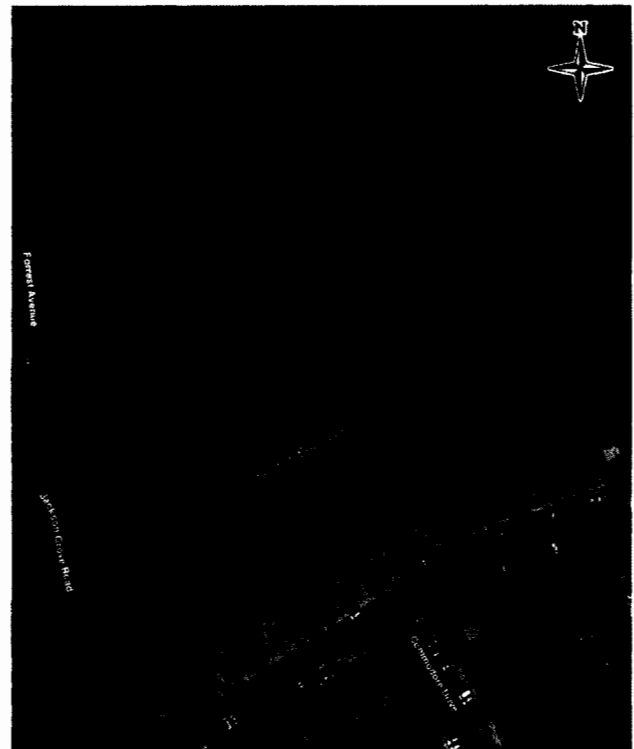
**Media of Concern:** None identified

**Site Location:** Grid H3, in the northeast portion of the installation, northeast of Forrest Avenue.

**Site Description:** Small Pit – 1952 was identified as an AOI because the EPA (1996) historic aerial photograph study of the installation listed a small pit on the 1952 aerial. The small pit was not specifically called out in the text of the EPA (1996) report. The small pit was also not called out in subsequent aerial photographs, nor did the EPA (1996) suggest it was filled in. There is no evidence of scarring, staining, or disturbance in any of the historic aerial photographs (EPA, 1996).

**Previous Studies:** No previous sampling was undertaken. This area was extensively walked as part of a PA/SI (URS Group, Inc., 2007d), and no signs of pits or stressed vegetation were identified. The EPA (1996) study did not identify stained soils or stressed vegetation in this area.

As part of the PA/SI, three surface and three subsurface soil samples were collected and analyzed for VOCs, SVOCs, metals, pesticides, herbicides, TPH-DRO, and TPH-GRO. The concentrations of cobalt in surface soil cause excess risk at this AOI



FGGM 95 - Small Pit - 1952  
0 60 120 240 Feet

**Current Use:** Wooded

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for surface soils and subsurface soils for this AOI.

### 2.5.9.19 FGGM 95 (OU-45) – TAYLOR AVENUE BURIED DRUM SITE

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996

Geophysical Survey ..... 2007

SI ..... 2007

PA ..... 2011

**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid F4, in the south-central portion of the installation, approximately 150 feet south of the intersection of Taylor Avenue and Gordon Street.

**Site Description:** The Taylor Avenue Buried Drum site was identified as an AOI on 24 February 2006, when, while mapping a gas line for Baltimore Gas & Electric, Soft Dig crews discovered a buried drum along Taylor Avenue. The drum was located between Building 6500, the Defense Information School, and Building 6530, the Auto Craft Shop. The AOI is confined to the eastern edge of Taylor Avenue.

**Previous Studies:** Over the course of previous investigations at this AOI, one drum composite sample and three post-excavation subsurface soil samples were collected and submitted for laboratory analysis.



Buried Drum Site - Taylor Avenue  
0 25 50 100  
feet

**Current Use:** Roadways and grass fields

**Current Status:** EPA approved NFA for this AOI on 5 October 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

### 2.5.9.20 FGGM 95 (OU-45) – WASTE STORAGE/DISPOSAL AREA – 1938

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study.....1996

PA/SI.....2010-2015

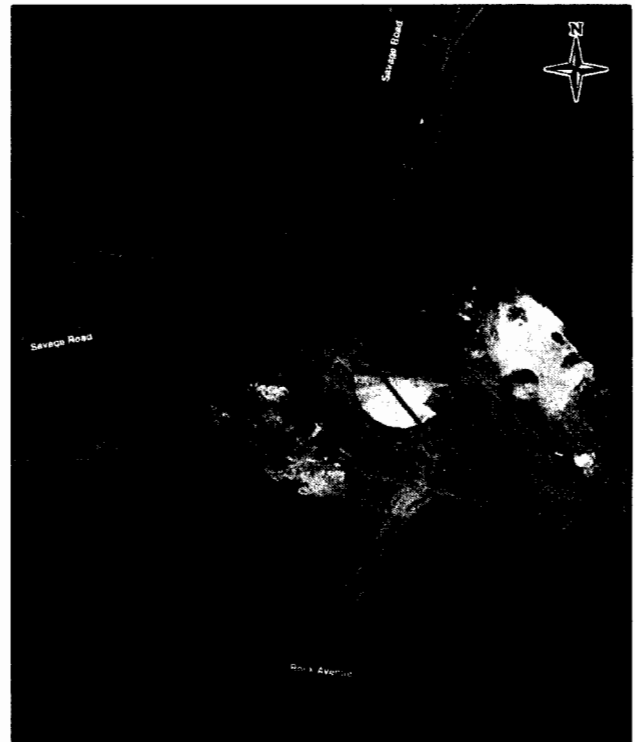
**Contaminants of Potential Concern:** VOCs, SVOCs, and metals

**Media of Concern:** Soil

**Site Location:** Grid I5, in the southeast corner of the installation, at the State Route 175/32 interchange.

**Site Description:** Waste Storage/Disposal Area – 1938 was identified as an AOI because possible waste storage or disposal was identified at this AOI during analysis of a 1938 aerial photograph. However, the EPA (1996) aerial photograph study of the installation did not identify this AOI until 1943.

**Previous Studies:** The EPA (1996) aerial photograph study of the installation identified a "Possible Dump or Waste Storage" area approximately 1,000 feet west of this AOI in the 1938 aerial. That site is being further studied under OU-4 as FGGM 88. A building and vehicles are observed at the AOI in the 1943 aerial photograph. The building number or past use is not known. The description for the 1952 aerial photograph states "This possible waste storage/disposal site has changed since 1943. It is now being used to store stockpiled raw materials. No evidence of waste material exists." The outline of the eastern area appears on the 1963 aerial, but there is no discussion of this area in the text of the EPA (1996) report. A possible ground scar can be seen in the 1970 aerial; however, the EPA (1996) study does not address it. The description for the 1975 aerial photograph states "almost all of the raw materials previously stored at this site are removed." As part of the PA/SI, subsurface soil samples were collected and analyzed for VOCs, SVOCs, and metals.



WASTE STORAGE/ DISPOSAL AREA-1938  
0 50 100 200 Feet

**Current Use:** This AOI is currently the on/off ramp for the State Route 175/32 interchange.

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils for this AOI.

In addition, groundwater in this area is being investigated under OU-4.

## 2.5.10 FGGM 96 (OU-46) – FORMER MOTOR POOLS, WRs, AND BUILDINGS

### 2.5.10.1 FGGM 96 (OU-46) – DPW ENTOMOLOGY DEPARTMENT, FORMER MP, BUILDING 294

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study .....	1996
Historic Aerial Photograph Study .....	1996
SI .....	1999
Data Gap Investigation .....	2002
PA .....	2011

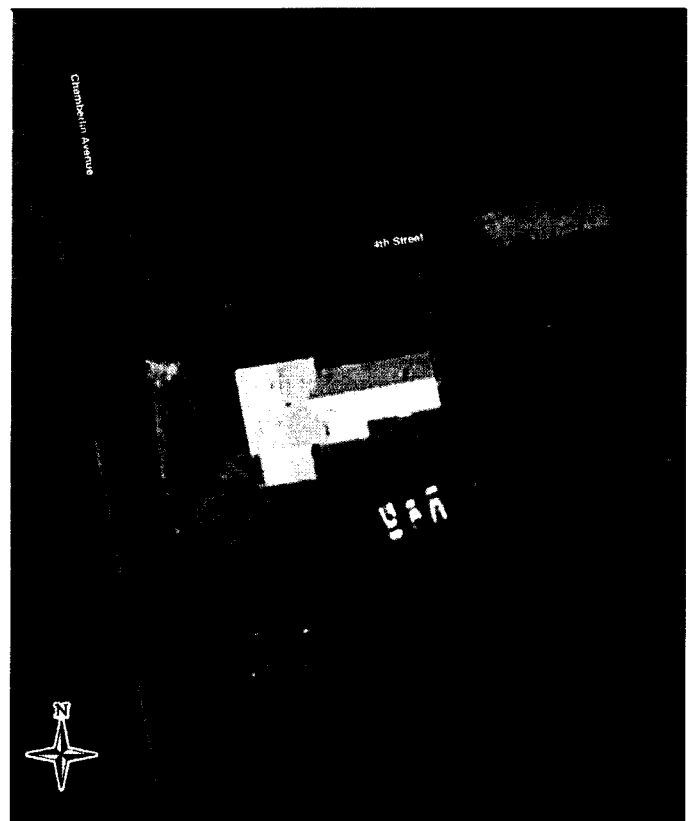
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid H4, on the eastern portion of the installation, in the southeast corner of the intersection of 4<sup>th</sup> Street and Chamberlin Avenue. Building 294 is located in the northwest corner of MP-7/WR-6. MP-7/WR-6 is being addressed separately.

**Site Description:** Building 294 was identified as a potential past SWMU in the 1996 SWMU study (BCM, 1996) because it was formerly used as a MP. Building 294 is used for administrative purposes and houses the Department of Public Works Entomology Department, where pesticides are stored and mixed. Pesticides, herbicides, fungicides, and rodenticides are stored inside; an outdoor concrete slab is used for mixing chemicals. The AOI is also identified as a “vehicle service and staging area” in historic aerial photographs dated 1943 through 1988, and as a “former vehicle service and staging area” in a 1995 historic aerial photograph (EPA, 1996).

**Previous Studies:** Over the course of previous investigations at this AOI, 6 surface soil samples and 11 subsurface soil samples were collected and submitted for laboratory analysis.



Building 294 - Entomology Department  
0 25 50 100 Feet

**Current Use:** Administrative

**Current Status:** EPA approved NFA for this AOI on 20 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

### 2.5.10.2 FGGM 96 (OU-46) – ASSOCIATED WR AND OWS, BUILDING 1251

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study..... 1996

Sampling Visits..... 1999 and 2001

SI ..... 2001

PA ..... 2011

**Contaminants of Potential Concern:** None identified

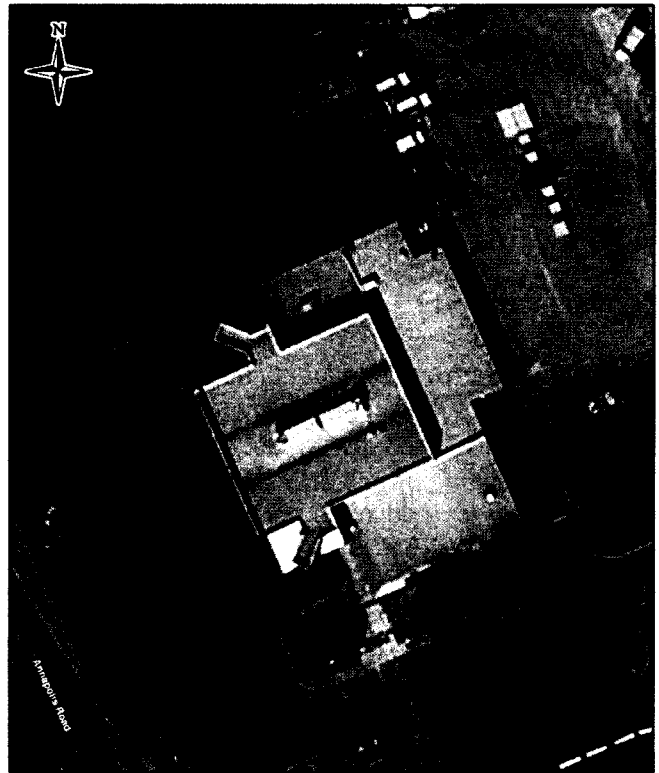
**Media of Concern:** None identified

**Site Location:** Grid G1, in the northern portion of the installation, in the southeast quadrant of the intersection of 26<sup>th</sup> Street and Annapolis Road.

**Site Description:** Building 1251 was identified as SWMU 19 because a portion of the building is used for vehicle maintenance (BCM, 1996). The adjacent WR (SWMU 21) and OWS (SWMU 20) were identified as SWMUs because of systematic wash water discharge into the OWS from the WR (BCM, 1996).

The maintenance shop in the building uses and stores small quantities of lube oil, waste oil, brake fluid, and antifreeze. Four former storage sheds, two near Building 1251 and two on the east side of Building 1252, were used to store hazardous materials and petroleum products; the sheds were removed in the late 1990s.

**Previous Studies:** Over the course of previous investigations at this AOI, four surface soil samples and 16 subsurface soil samples (plus one duplicate subsurface soil sample) were collected and analyzed.



Building 1251 - Administrative and Vehicle and Equipment Storage, Wash Rack

0 25 50 100  
Feet

**Current Use:** Administrative functions and storage of military vehicles and equipment; a portion of the building is used for minor vehicle maintenance

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

### 2.5.10.3 FGGM 96 (OU-46) – VEHICLE MAINTENANCE, BUILDING 2121

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study ..... 1996

Sampling Visits ..... 1999

PA ..... 2011

**Contaminants of Potential Concern:** None identified

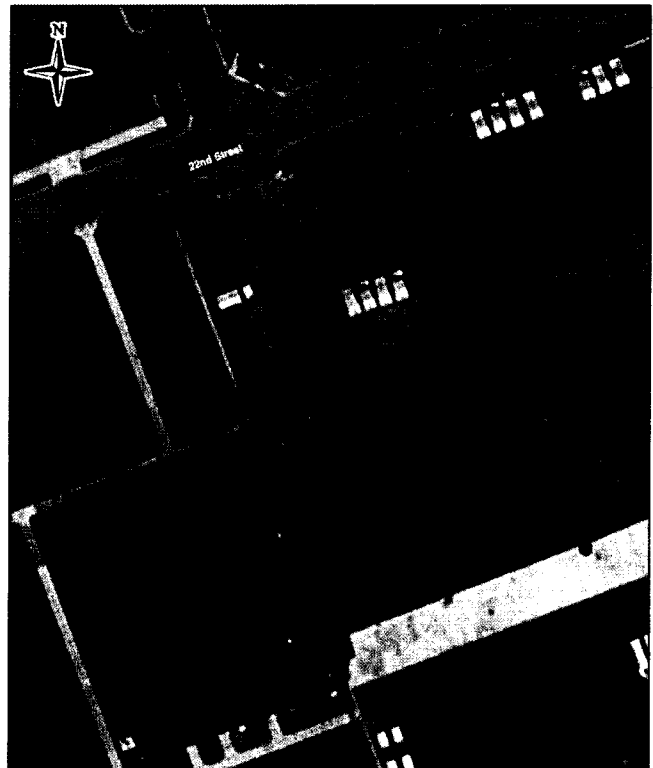
**Media of Concern:** None identified

**Site Location:** Grid H2, Former Building 2121 was located in the northeastern portion of the installation, at the southeast quadrant of the intersection of Annapolis Road and 21½ Street.

**Site Description:** Building 2121 (SWMUs 29 and 30) was constructed in 1941. It was identified as two SWMU facilities in the 1996 SWMU study (BCM, 1996) because of its past operation as a vehicle and small engine maintenance repair facility (SWMU 30) and its more recent use for equipment maintenance and repair (SWMU 29). There were no spills or reported releases identified by BCM during the SWMU study (BCM, 1996).

At the time of the 1998 sampling activities (Versar, 1999), vehicles and equipment were parked in the yard, and limited quantities of antifreeze, gasoline, diesel fuel, and motor oil were stored on the AOI. The building was demolished in early 1999, shortly after the 1998 sampling activities.

**Previous Studies:** Over the course of previous investigations at this AOI, 6 surface and 13 subsurface soil samples were collected and submitted for laboratory analysis.



Building 2121 - Vehicle Maintenance  
0 25 50 100 Feet

**Current Use:** Parking lot

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

#### 2.5.10.4 FGGM 96 (OU-46) – MAINTENANCE FACILITY, FORMER BUILDING 2122

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study .....1996

Historic Aerial Photograph Study.....1996

Sampling Visits.....1999

PA.....2011

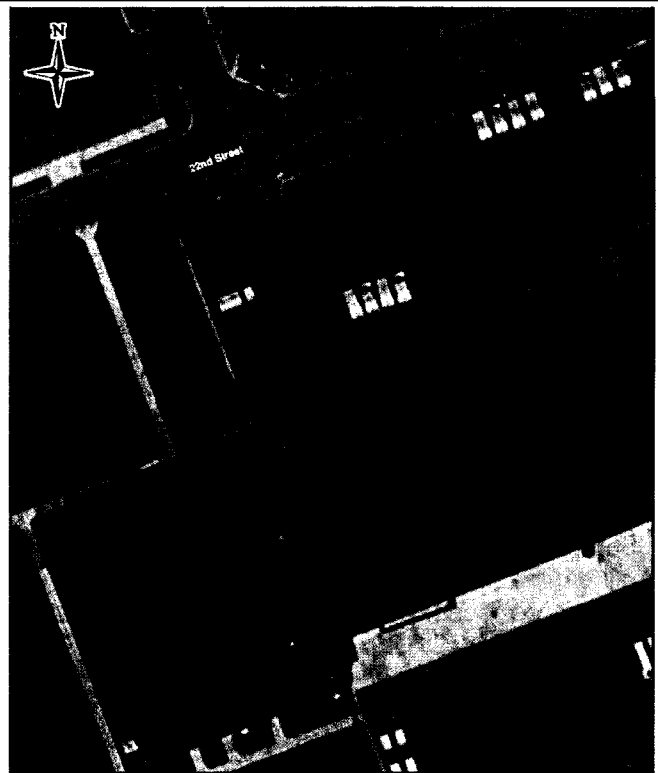
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid H2, in the northeast portion of the installation, in the southeast quadrant of the intersection of 21½ Street and Annapolis Road.

**Site Description:** Building 2122 was identified as SWMU 31 during the 1996 SWMU study (BCM, 1996) because of its past use as a vehicle maintenance facility. There were no spills or reported releases identified during the SWMU study (BCM, 1996). Former Building 2122 was used as a vehicle maintenance facility from its construction in 1941 until 1975, for camouflage painting from 1975 to 1978, and for storing miscellaneous military supplies (tents and small motors) from 1978 until its demolition in early 1999.

**Previous Studies:** Over the course of previous investigations at this site, four subsurface soil samples were collected and submitted for laboratory analysis.



Building 2122 - Vehicle Maintenance  
0 25 50 100 Feet

**Current Use:** Administrative

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.



#### 2.5.10.5 FGGM 96 (OU-46) – MAINTENANCE FACILITY, FORMER BUILDING 2123

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study..... 1996

Sampling Visits..... 1999

PA..... 2011

**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid H2, in the northeast portion of the installation, in the southeast quadrant of the intersection of 21½ Street and Annapolis Road.

**Site Description:** Former Building 2123 was constructed in 1941. It was used as a vehicle maintenance facility in the 1970s, and for equipment storage since that time until it was removed, sometime between 2001 and 2003.

**Previous Studies:** Over the course of previous investigations at this site, four subsurface soil samples were collected and submitted for laboratory analysis.



Building 2123 - Tent/Jeep Storage  
0 30 60 120  
Feet

**Current Use:** Parking lot and grassy area

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

### 2.5.10.6 FGGM 96 (OU-46) – MAINTENANCE FACILITY, BUILDING 2124

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study ..... 1996

Sampling Visits ..... 1999

PA ..... 2011

**Contaminants of Potential Concern:** None identified

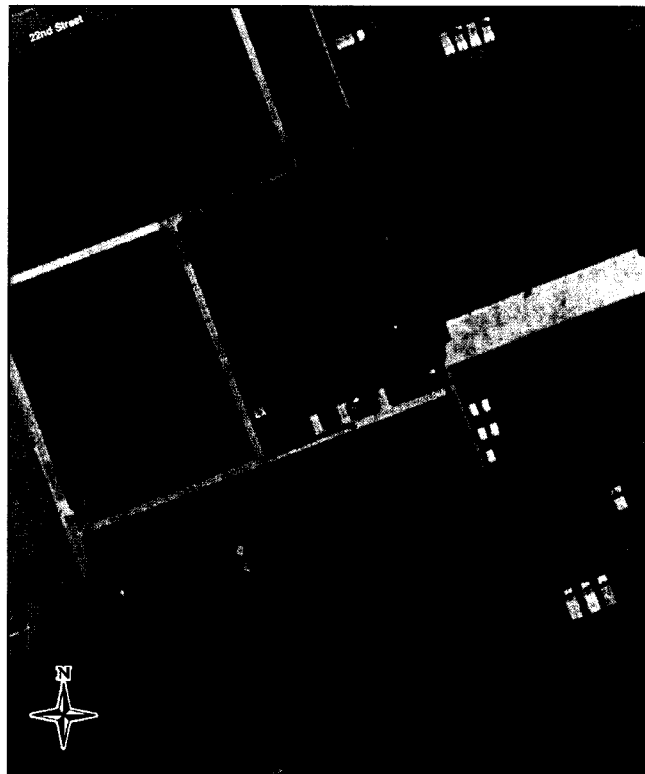
**Media of Concern:** None identified

**Site Location:** Grid H2, in the northeast portion of the installation, approximately 800 feet southeast of the intersection of 21½ Street and Annapolis Road.

**Site Description:** Building 2124 was constructed in 1941 and identified as two SWMUs during the 1996 SWMU study (BCM, 1996) because it was used as a vehicle and tool storage area (SWMU

33) and because routine waste from the building may have been contained and discarded on site during the building's former use as a vehicle maintenance facility (SWMU 34). There were no spills or reported releases identified during the SWMU study (BCM, 1996). It is unknown when the building was removed.

**Previous Studies:** Over the course of previous investigations at this AOI, four subsurface soil samples (and one duplicate subsurface soil sample) were collected and submitted for laboratory analysis.



Building 2124 - Vehicle and Tool Storage, Vehicle Maintenance

0 30 60 120 Feet

**Current Use:** Trees and grass

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

### 2.5.10.7 FGGM 96 (OU-46) – MEDICAL SUPPLY/ADMINISTRATION, BUILDING 2484

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study..... 1996

Sampling Visit..... 2000

PA..... 2011

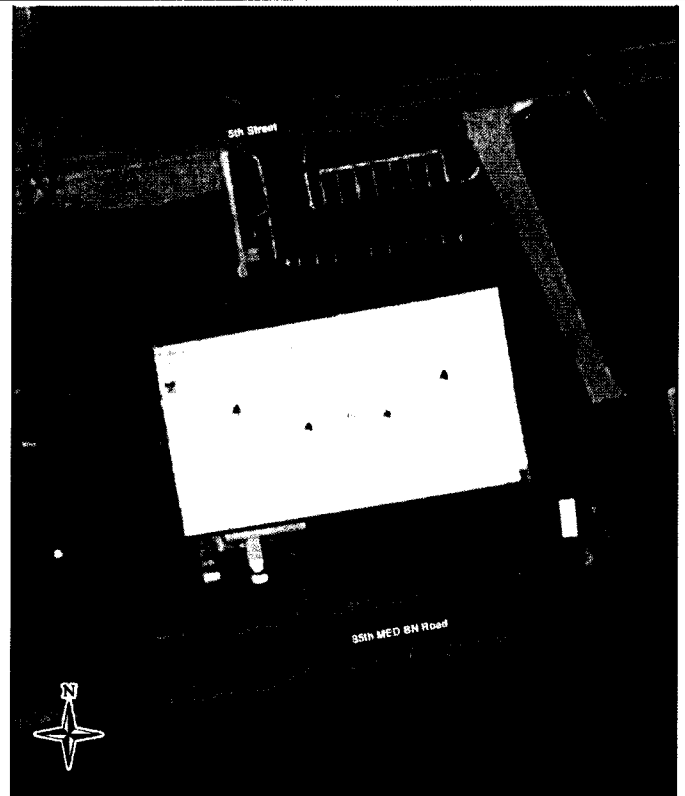
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid H4, in the southeastern portion of the installation, approximately 250 feet northwest of the intersection of Ernie Pyle and 4<sup>th</sup> Streets.

**Site Description:** Building 2484 served as a warehouse for receiving and storing hospital supplies. The building stored unopened containers of chemicals, including cleansers, acetone, methanol, ammonia, alcohol pads, and developers and fixers for the hospital's X-ray machine. In the past, products were stored in a flammable room in the building. These chemicals are reportedly no longer stored in this building.

**Previous Studies:** Over the course of previous investigations at this site, four subsurface soil samples and one groundwater sample were collected and submitted for laboratory analysis.



Building 2484 -- Hospital Chemical Facility  
0 25 50 100 Feet

**Current Use:** Administrative

**Current Status:** EPA approved NFA for this AOI on 20 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

### 2.5.10.8 FGGM 96 (OU-46) – DENTAL RESEARCH LABORATORY, FORMER BUILDING 2802

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study.....1996

Historic Aerial Photograph Study.....1996

Sampling Visit .....2001

PA .....2012

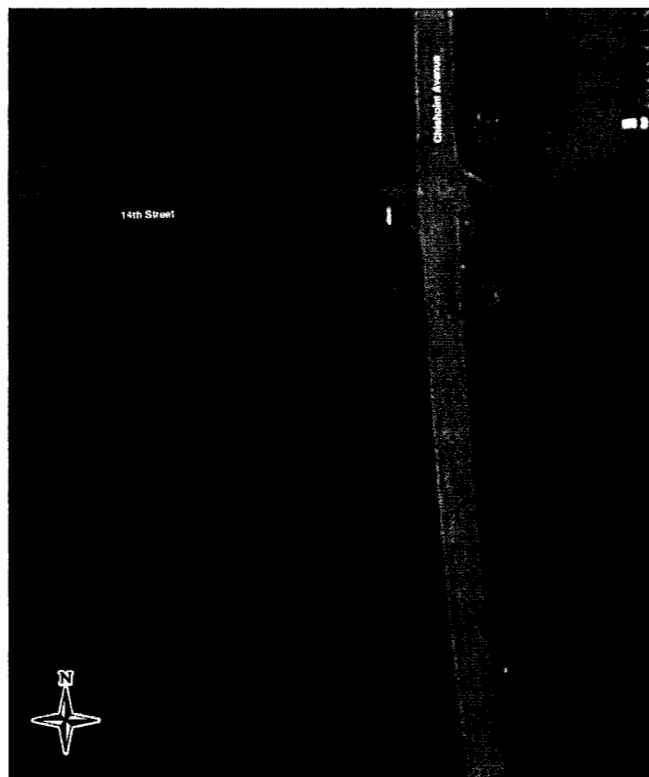
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid H3, in the eastern portion of the installation, approximately 1,200 feet north of the intersection of Mapes Road and Chisholm Avenue.

**Site Description:** Former Building 2802 was constructed in 1941 and used as a dental research laboratory for approximately 10 years starting in the early 1970s. The dental research laboratory used radioactive materials until it was decommissioned. Radioactive waste was removed by the Forest Glen health physics office, and the radioactive materials license was relinquished in 1994. The building was used in the mid-1990s for administrative purposes and storing laboratory equipment, and it was demolished by early 2000.

**Previous Studies:** Over the course of previous investigations at this site, four subsurface soil samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



Building 2802 - Dental Research Lab  
0 25 50 100 Feet

**Current Use:** Grassy field

**Current Status:** EPA approved NFA for this AOI on 18 April 2012.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

**2.5.10.9 FGGM 96 (OU-46) – CHEMICAL STORAGE AND ELECTRON MICROSCOPY LAB,  
FORMER BUILDING 2804**

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study.....	1996
Sampling Visit.....	2000
Data Gap Investigation .....	2002
PA.....	2012

**Contaminants of Potential Concern:** None identified

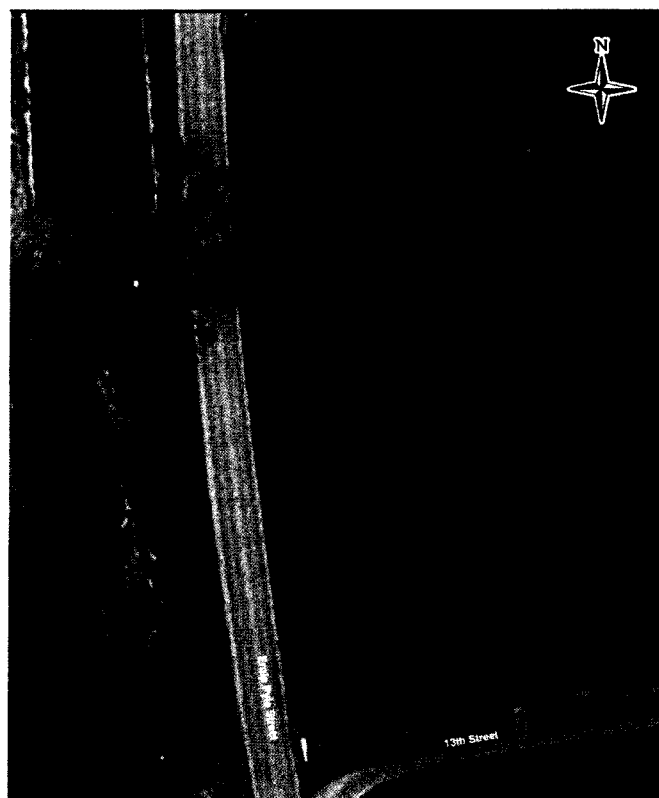
**Media of Concern:** None identified

**Site Location:** Grid H3, in the eastern portion of the installation, north of the intersection of Ernie Pyle and 13<sup>th</sup> Streets.

**Site Description:** Building 2804 was identified as a potential former SWMU because it was formerly used as an electron microscopy laboratory. The building was used as barracks before it became a laboratory (BCM, 1996).

Chemicals were stored in flammable cabinets, storage shelves, and in a chemical waste cabinet. Chemicals on the shelves included potassium permanganate, buffer solutions, hydrochloric acid, and uranium acetate (uranyl acetate). The amount of uranium acetate stored and used at this AOI would have been minimal.

**Previous Studies:** Over the course of previous investigations at this AOI, three surface soil samples, ten subsurface soil samples, and three groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



Building 2804 - Chemical Storage, Electron Microscopy Lab



**Current Use:** Grass field

**Current Status:** EPA approved NFA for this AOI on 18 April 2012.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

**2.5.10.10 FGGM 96 (OU-46) – LAB/CHEMICAL STORAGE/OFFICERS' MESS HALL,  
FORMER BUILDING 2805**

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study.....	1996
Sampling Visit.....	2000
Data Gap Investigation .....	2002
PA .....	2012

**Contaminants of Potential Concern:** None identified

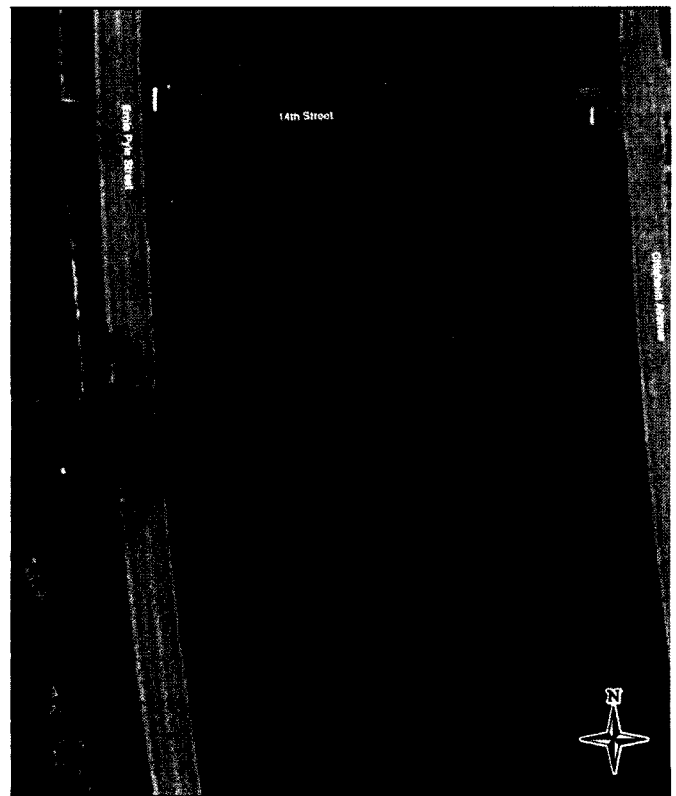
**Media of Concern:** None identified

**Site Location:** Grid H3, in the eastern portion of the installation, southeast of the intersection of Ernie Pyle and 13<sup>th</sup> Streets.

**Site Description:** Building 2805 was identified as a potential past SWMU in the 1996 SWMU study (BCM, 1996) because it was formerly used as a high-performance liquid chromatography lab and microencapsulation lab since the 1970s, and exactly how waste was managed in the past is unknown. There were no spills or reported releases identified during the SWMU study (BCM, 1996).

Building 2805 stored chemicals, including lithium bromide, magnesium sulfate, potassium phosphate, heptane, acetonitrile, dextran, polyvinyl alcohol, and buffer solution. Prior to being used as a laboratory, the building was used as barracks. Building 2805 was demolished in the late 1990s.

**Previous Studies:** Over the course of previous investigations at this site, 7 direct-push borings were advanced around Building 2805; three surface soil samples, 13 subsurface soil samples, and one groundwater sample were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



Building 2805 - Laboratory Chemical Storage  
0 25 50 100 Feet

**Current Use:** Grassy field

**Current Status:** EPA approved NFA for this AOI on 18 April 2012.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

## 2.5.10.11 FGGM 96 (OU-46) – DENTAL CLINIC, FORMER BUILDING 2831

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study .....	1996
Historic Aerial Photograph Study .....	1996
Environmental Impact Statement (EIS) .....	1997
Sampling Visit .....	2000
PA .....	2011

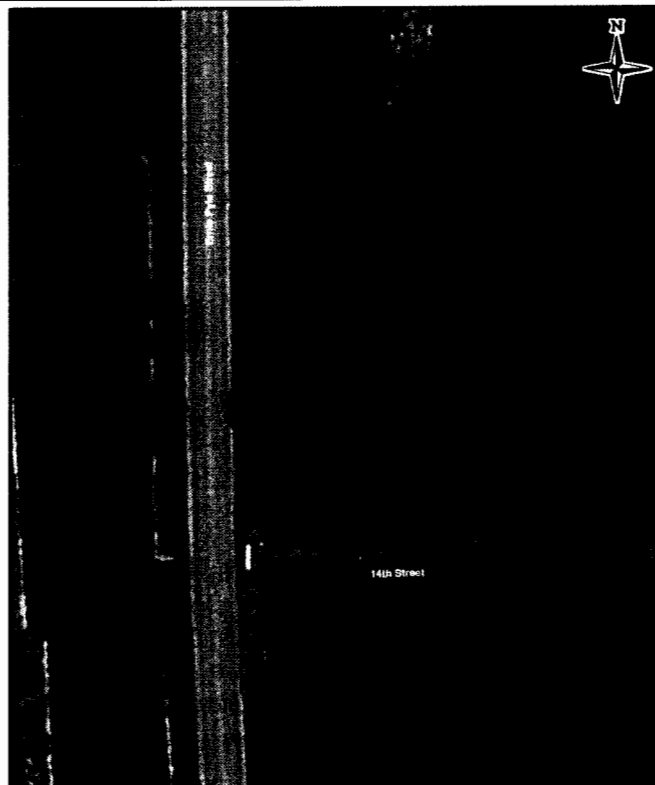
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid H3, in the eastern portion of the installation, approximately 1,500 feet north of the intersection of Mapes Road and Chisholm Avenue.

**Site Description:** Former Building 2831(SWMUs 96 and 97) was constructed in 1941 for administrative purposes. It was also used for dentistry training and as a dental clinic, an x-ray processing lab, and chemical storage. There were two silver recovery units inside the building. Wastewater from the silver recovery units was flushed down the sanitary sewer, where it was treated at a wastewater treatment plant. The building was demolished in 1999.

**Previous Studies:** Over the course of previous investigations at this site, six direct-push borings were completed adjacent to Former Building 2831, and six subsurface soil samples were collected and submitted for laboratory analysis.



Building 2831 - Dentistry Training and Clinic, X-Ray Processing Lab, and Chemical Storage

**Current Use:** Vacant, grass-covered lot

**Current Status:** EPA approved NFA for this AOI on 20 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

## 2.5.10.12 FGGM 96 (OU-46) – ADMINISTRATIVE, BUILDING 4552

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study.....1996

SWMU Study.....1996

PA.....2011

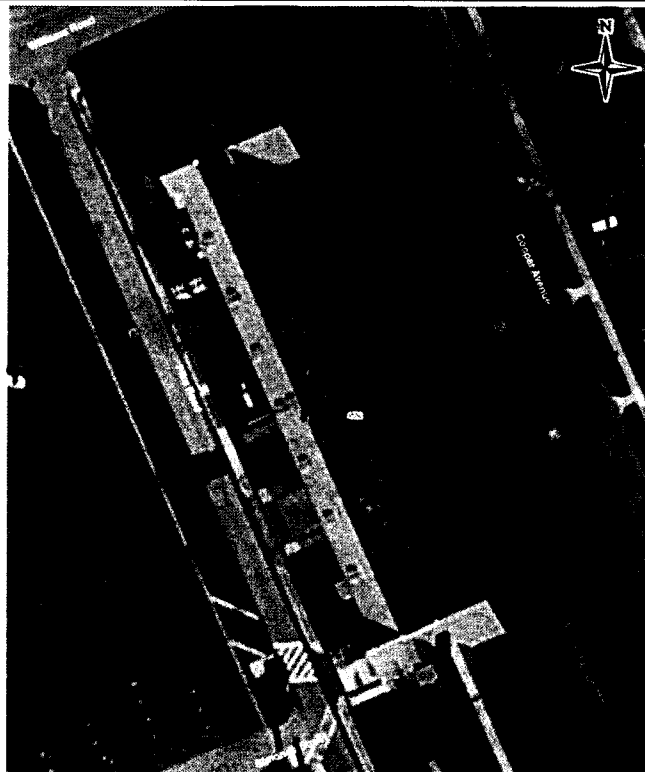
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid G4, in the southeastern portion of the installation, northwest of the intersection of Llewellyn and Cooper Avenues.

**Site Description:** Building 4552 – administrative and 1940 barracks (Non-SWMU 10), was not identified as a SWMU in the 1996 SWMU study (BCM, 1996) because no routine waste was stored or produced here. Current and past use of Building 4552 consisted of support facilities, primarily administrative, for intelligence agencies. It typically stored cleaners (floor wax, strippers, and detergents) and office supplies. There are no reports of pesticides being stored at this building.

**Previous Studies:** Building 4552 was investigated as part of the SWMU study and included in the SWMU report (BCM, 1996). BCM indicated there were no spills or reported releases in the building or the area surrounding this building during the SWMU study (BCM, 1996).



Building 4552 - Non-SWMU 10  
0 25 50 100 Feet

**Current Use:** Administrative

**Current Status:** EPA approved NFA for this AOI on 20 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.



### 2.5.10.13 FGGM 96 (OU-46) – PHOTO LAB, BUILDING 4554

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

EIS..... 1977  
 SWMU Study..... 1996  
 Sampling Visit..... 2000  
 PA..... 2011

**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid G4, in the southern portion of the installation near the intersection of Llewellyn and Cooper Avenues.

**Site Description:** Building 4554 was used as a support facility for the intelligence agencies; it consists of a photo lab, electronics fabrication, and administrative functions. Typical maintenance chemicals such as cleaners, floor waxes, strippers, and detergents were stored in the building. The photo lab contained a silver recovery system for the developer and fixer, and after recovery the developers and process chemicals were flushed into the sanitary sewer system, where it was treated by a wastewater treatment plant. These operations reportedly no longer occur at this facility.

**Previous Studies:** Over the course of previous investigations at this AOI, eight direct-push borings were advanced around Building 4554, and eight subsurface soil samples were collected and submitted for laboratory analysis.



Building 4554 - Support Facility for Intelligence Agencies

0 40 80 160 Feet

**Current Use:** Administrative

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

**2.5.10.14 FGGM 96 (OU-46) – WR SYSTEM FOR MOST RECENT GOLF COURSE CLUB HOUSE, BUILDING 6800**

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study..... 1996  
 Historic Aerial Photograph Study..... 1996  
 Sampling Visits..... 1998-1999  
 Data Gap..... 2002  
 PA..... 2011

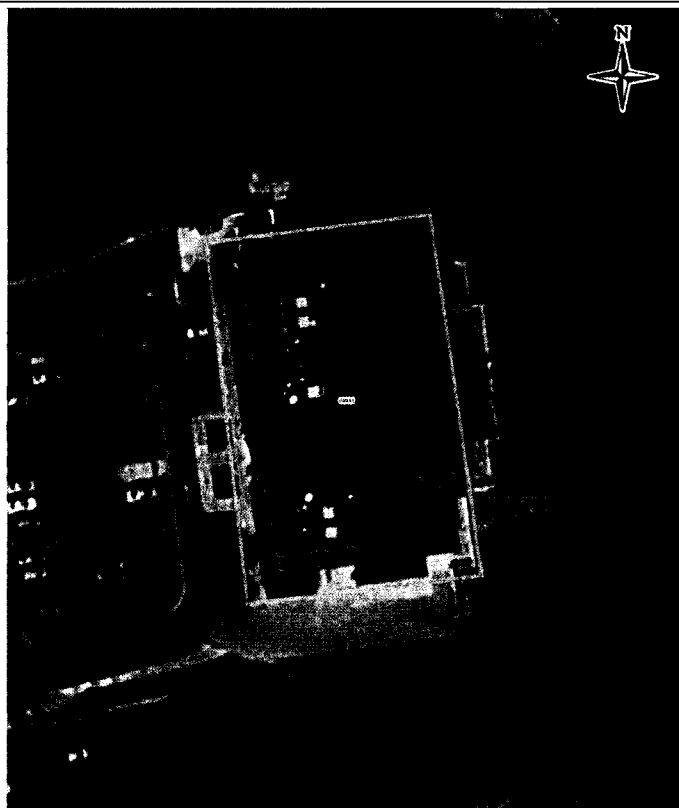
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid F3, east of Taylor Avenue.

**Site Description:** The SWMU study (BCM, 1996) identified an OWS (SWMU 139) and WR (SWMU 140) adjacent to and northeast of Building 6865, the former clubhouse, which was located east of Taylor Avenue. The SWMU Sampling Visit and Data Gap studies involved collecting samples east of Building 6800, the site of the most recent Golf Course Club House. The WR associated with the most recent Golf Course Club House (Building 6800) off Taylor Avenue is used for rinsing and washing golf carts and golf course maintenance equipment. Building 6800 was constructed in 1993. The former Golf Course Club House, Building 6865, was located directly south of Building 6800, and is addressed as a separate site.

**Previous Studies:** Over the course of previous investigations at this AOI, three surface soil samples and six subsurface soil samples were collected and submitted for laboratory analysis.



Building 6800 - WR System for Most Recent Golf Course Club House

0 25 50 100 Feet

**Current Use:** Vacant building

**Current Status:** EPA approved NFA for this AOI on 7 January 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

**2.5.10.15 FGGM 96 (OU-46) – WR SYSTEM FOR FORMER GOLF COURSE CLUB HOUSE,  
BUILDING 6865**

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study..... 1996

Historic Aerial Photograph Study..... 1996

PA/SI..... 2011

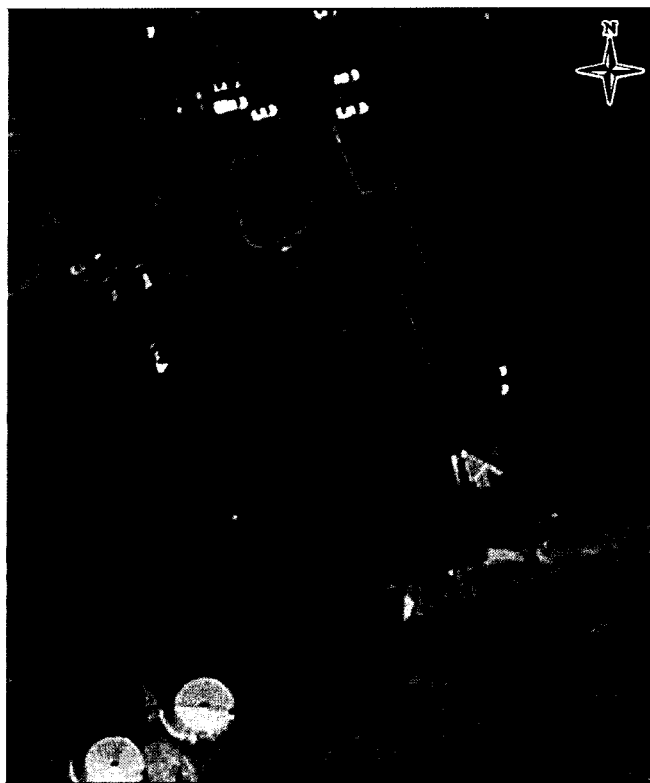
**Contaminants of Potential Concern:** VOCs, SVOCs, metals, herbicides, and pesticides

**Media of Concern:** Soil and groundwater

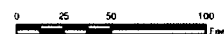
**Site Location:** Grid F3, east of Taylor Avenue.

**Site Description:** The SWMU study (BCM, 1996) identified an OWS (SWMU 139) and WR (SWMU 140) adjacent to and northeast of Building 6865, the former clubhouse. Building 6865 was located east of Taylor Avenue. The site of former Building 6865 is currently a parking lot. The SWMU Sampling Visit and Data Gap studies collected samples east of Building 6800, the site of the most recent Golf Course Club House. The WR associated with the former Golf Course Club House (Building 6865) was not investigated. The former Golf Course Club House, Building 6865, was located directly south of Building 6800, and is addressed as a separate site.

**Previous Studies:** As part of the 2011 SI, two surface soil samples, three subsurface soil samples, and one groundwater sample was collected and analyzed for VOCs, SVOCs, metals, herbicides, and pesticides.



Building 6865 - WR System for Former Golf Course Club House



**Current Use:** Parking lot

**Current Status:** Based on the results of the 2011 SI, EPA approved NFA for this AOI on 17 February 2012.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

## 2.5.10.16 FGGM 96 (OU-46) – DENTAL CLINIC, BUILDING 8472

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Draft EIS.....	1977
SWMU Study.....	1996
Sampling Visit.....	2000
PA.....	2011

**Contaminants of Potential Concern:** None identified

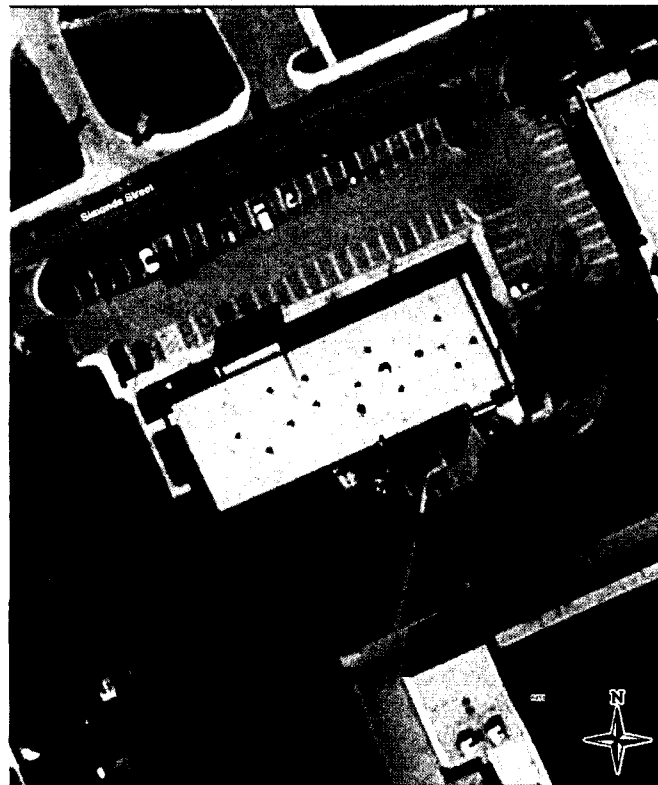
**Media of Concern:** None identified

**Site Location:** Grid F4, in the southern portion of the installation on Simonds Road between Zimborski Avenue and 6<sup>th</sup> Armored Calvary Road.

**Site Description:** Building 8472 was constructed in the early 1960s and replaced a building constructed in the mid-1950s. Building 8472 was used as a dental clinic, and it contained a silver recovery system. After recovery, developers and process chemicals were flushed into the sanitary sewer system. Chemicals not in active use were stored in a locked room in several flammable materials cabinets and on storage shelves.

These activities reportedly stopped.

**Previous Studies:** Over the course of previous investigations at this AOI, four subsurface soil samples were collected and submitted for laboratory analysis.



Building 8472 - Dental Clinic  
0 25 50 100  
Feet

**Current Use:** Administrative

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

## 2.5.10.17 FGGM 96 (OU-46) – VEHICLE MAINTENANCE, BUILDING 8487

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study ..... 1996

RFA 3<sup>rd</sup> Phase ..... 1999

PA ..... 2011

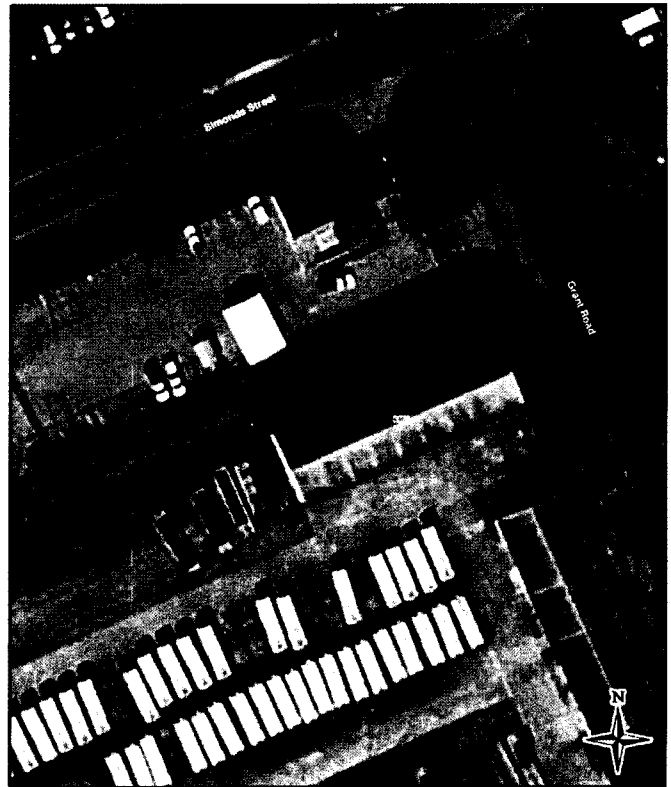
**Contaminants of Potential Concern:** TPH, VOCs, and SVOCs

**Media of Concern:** Soil and groundwater

**Site Location:** Grid F5, in the southwest portion of the installation, southwest of the intersection of O'Brien Road and Simonds Street.

**Site Description:** Building 8487 (SWMUs 119 and 120) was used as a motor pool for conducting maintenance checks on military vehicles, including oil changes. This AOI also contains five sheds west of Building 8487 that used to store paints, oils, antifreeze, and waste oil. Building 8487 stores acetylene and argon for welding.

**Previous Studies:** Over the course of previous investigations at this site, two surface soil samples and eight subsurface soil samples were collected from eight different borings around Building 8487. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



Building 8487 - Motor Pool  
0 25 50 100  
feet

**Current Use:** Administrative

**Current Status:** EPA approved NFA for this AOI on 5 October 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

**2.5.10.18 FGGM 96 (OU-46) – ADMINISTRATIVE, BARRACKS, AND CLINIC, BUILDINGS  
2454, 2455, 2456, AND 2457**

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996

PA ..... 2011

**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid H4, in the southeastern portion of the installation, in the northeast quadrant of the intersection of Wilson and 4½ Streets.

**Site Description:** Former Building 2454 was used for administration since its construction in the early 1940s and was demolished in 1999/2000.

Former Building 2455 was used as barracks beginning in the early 1940s and later served as the Dental Headquarters administration.

Former Building 2456 served as the Community Counseling Center for social drug rehabilitation.

Former Building 2457 served as the eye clinic and administrative offices of Optometry Services, and they stored/used alcohol preps, acetone, office supplies, and household cleaners.

**Previous Studies:** No soil or groundwater samples have been collected at this AOI. The 1996 SWMU study did not identify these AOIs as SWMUs, and it recommended NFA. The Fort Meade Environmental Partnership approved this AOI for NFA in 1999. There are no recent or historical indications of releases or contamination at these AOIs (BCM, 1996). There is no evidence of scarring, staining, or disturbance in any of the historic aerial photographs (EPA, 1996).



Former Buildings 2454, 2455, 2456, and 2457

0 40 80 160 Feet

**Current Use:** Buildings.

**Current Status:** EPA approved NFA for this AOI on 20 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

## 2.5.10.19 FGGM 96 (OU-46) – STOREHOUSE, BUILDING 2801

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study..... 1996

Historic Aerial Photograph Study..... 1996

PA..... 2011

**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid H3, in the eastern portion of the installation, in the northwest corner of the intersection of Chisholm Avenue and 13<sup>th</sup> Street.

**Site Description:** Former Building 2801 was constructed in the early 1940s. Prior to 1985, the building was used as a warehouse to store lab equipment for the Corps of Engineers. More recently it was used as a research/administrative facility that utilized computers, video equipment, and robotics. Chemicals stored inside the building included small amounts of oils for the lathe and dry Polaroid films for photographic supplies. Chemicals were generally used entirely, and if any waste was produced, it was moved to Building 2832. Building 2801 was demolished in 1999 or 2000.

Building 2801 was not identified as a SWMU in the 1996 SWMU study (BCM, 1996). The SWMU study recommended NFA for this AOI (BCM, 1996). There are no recent or historical indications of releases or contamination at this AOI. There is no evidence of scarring, staining, or disturbance in any of the historic aerial photographs (EPA, 1996).

**Previous Studies:** No soil or groundwater samples have been collected at this AOI.



Building 2801 -- Former Research/Administration  
0 25 50 100  
Feet

**Current Use:** Grass field

**Current Status:** EPA approved NFA for this AOI on 20 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

**2.5.10.20 FGGM 96 (OU-46) – BARRACKS AND ADMINISTRATIVE, BUILDINGS 9802 AND 9803**

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study ..... 1996

Historic Aerial Photograph Study ..... 1996

PA ..... 2011

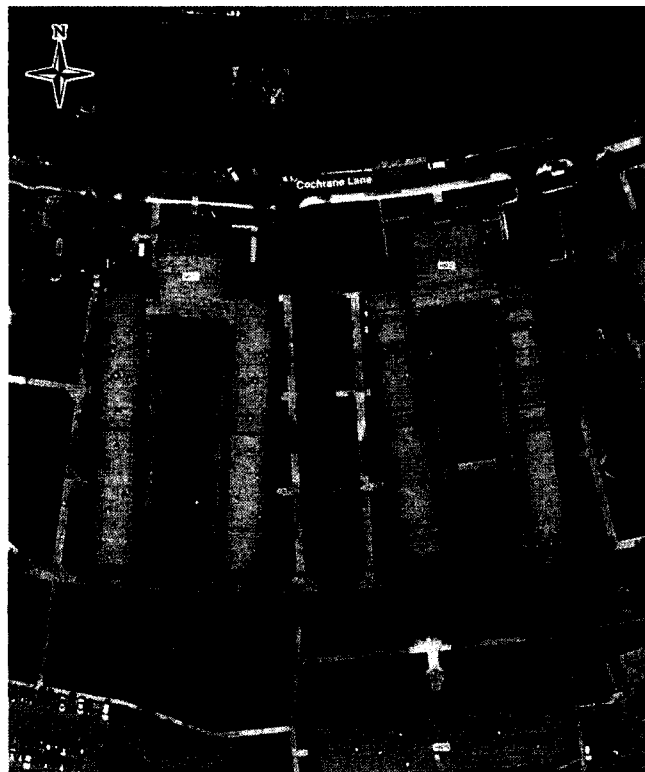
**Contaminants of Potential Concern:** Not determined

**Media of Concern:** Not determined

**Site Location:** Grid E3, in the western portion of the installation, southeast of the intersection of Canine Road and Cochrane Lane.

**Site Description:** Buildings 9802 (non-SWMU 12) and 9803 (non-SWMU 13) have been used for troop housing since their construction in the mid-1950s. No chemicals are used or stored in these buildings except typical cleaners, and no routine waste is generated, discharged, or stored in these buildings. Buildings 9802 and 9803 were not identified as SWMUs in the 1996 SWMU study because there was no storage of waste material or systematic waste discharges. However, they were investigated as part of the SWMU study and included in the SWMU (1996) report.

**Previous Studies:** Over the course of previous investigations at this site, personnel knowledgeable about the buildings were interviewed and historic aerial photographs were reviewed. In both cases, no evidence of a release of hazardous substances resulting in contamination to soil, groundwater, or surface water was found. There is no evidence of scarring, staining, or disturbance in any of the historic aerial photographs (EPA, 1996).



Buildings 9802 and 9803 -- Troop Housing  
0 50 100 200 Feet

**Current Use:** Barracks and administrative

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.



## 2.5.10.21 FGGM 96 (OU-46) – PRIVATELY OWNED VEHICLES WR

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study ..... 1996

Historic Aerial Photograph Study ..... 1996

RFA 3<sup>rd</sup> Phase ..... 1999

PA ..... 2011

**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid F5, SWMUs 141 and 142 are located in the southern portion of the installation, southeast of Dutt Road.

**Site Description:** The WR system located southeast of Dutt Road is not associated with any building. The system was identified as two SWMUs during a 1996 SWMU study because it routinely discharged wash water from the WR (SWMU 142) to the OWS (SWMU 141) (BCM, 1996). The WR was in use during the 1999 RFA for washing privately owned vehicles. Its construction date is unknown, but buildings occupied the AOI from the early 1940s through the 1960s. This AOI was not identified in the EPA (1996) review of historic aerial photographs of the installation; no stains, stressed vegetation, standing liquid, or other environmental concerns were identified at this location.

**Previous Studies:** Over the course of previous investigations at this AOI, six subsurface soil samples were collected and analyzed.



SWMUs 141 and 142 - Privately Owned Vehicles Wash Rack

0 25 50 100  
Feet

**Current Use:** Grass and trees

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

## 2.5.10.22 FGGM 96 (OU-46) – FORMER OWS AND WR

**Regulatory Driver:** CERCLA

### Environmental Investigations:

SWMU Study ..... 1996  
 Historic Aerial Photograph Study ..... 1996  
 RFA 3<sup>rd</sup> Phase ..... 1999  
 SI ..... 2001  
 PA ..... 2011

**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid H4, in the southeastern portion of the installation, northwest of the intersection of 4<sup>th</sup> and Y Streets.

**Site Description:** SWMUs 143 and 144 were identified as two SWMUs because the WR (SWMU 144) discharged to the OWS (SWMU 143), and then to the sanitary sewer system when washing military vehicles and equipment. The area was converted to a family campground at the end of 2001. The construction date is unknown for the WR system. It consisted of a concrete-lined WR and associated OWS, and was demolished and removed in 1999.

**Previous Studies:** No spills or reported releases were identified during the SWMU study (BCM, 1996). Over the course of previous investigations at this AOI, six surface soil samples (plus one duplicate sample), five subsurface soil samples, and two groundwater samples (plus one duplicate sample) were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.



SWMUs 143 and 144 - Wash Rack and Oil/Water Separator  
 0 25 50 100 Feet

**Current Use:** Roadways and grassy areas

**Current Status:** EPA approved NFA for this AOI on 20 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

## 2.5.10.23 FGGM 96 (OU-46) – OIL TANKS

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996

PA ..... 2011

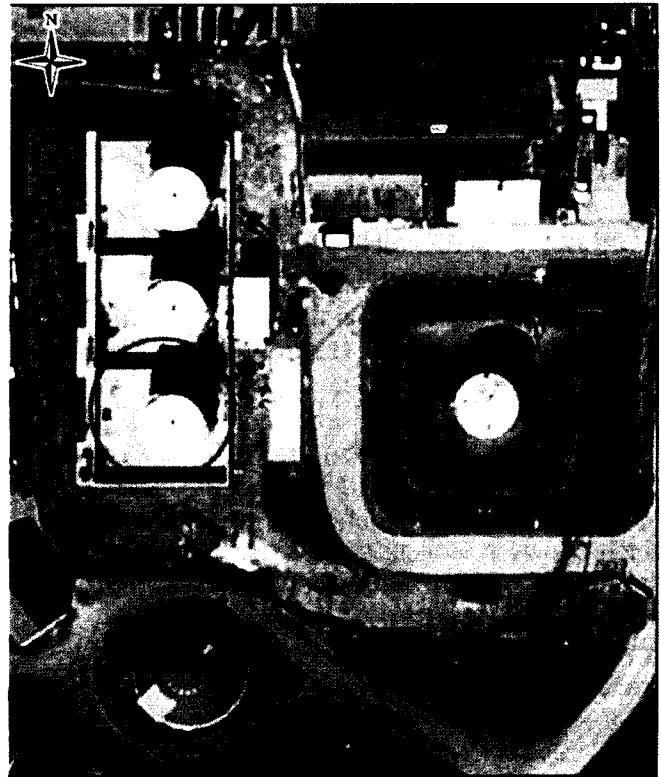
**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid E3/E4, in the western portion of the installation, west of Dennis Road, south of Emory Road, and south of Building 9807.

**Site Description:** Two oil tanks and a heating plant are located at this AOI. The oil tanks probably held heating oil for the adjacent heating plant and did not hold any hazardous material. It is unknown why these oil tanks are considered an AOI. This location was not identified as an AOI during the 1996 SWMU study (BCM, 1996) or the EPA (1996) historic aerial photograph study of the installation. The EPA (1996) study did not identify stained soils, stressed vegetation, standing liquid, or other environmental concerns in this area in any of the historic aerial photographs.

**Previous Studies:** No previous sampling has been undertaken.



**Current Use:** Oil tanks

**Current Status:** EPA approved NFA for this AOI on 15 June 2011.

**Cleanup/Exit Strategy:** Not applicable; NFA is required for this AOI.

#### 2.5.10.24 FGGM 96 (OU-46) – FORMER MP-2

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study..... 1996

Soil and Groundwater Quality

Investigation..... 2009

PA/SI ..... 2010-2015

**Contaminants of Potential Concern:** VOCs, SVOCs, TPH-DRO, TPH-GRO, and metals

**Media of Concern:** Soil and groundwater

**Site Location:** Grid G4, in the south central portion of the installation, west of Griffin Avenue and north of Simonds Street.

**Site Description:** MP-2 was identified as an AOI because it was identified on the circa 1952 land use map (Anon., 1952). This AOI was also identified in the EPA (1996) review of historic aerial photographs, which shows a vehicle service and storage area at this location on the 1963, 1970, 1975, and 1988 aerial photographs.

**Previous Studies:** Stains, standing liquid, or stressed vegetation was observed at this AOI in the 1963, 1970, 1975, and 1988 aerial photographs (EPA, 1996). Presently, the AOI does not exhibit signs of staining, runoff, or stressed vegetation.

Over the course of previous investigations at this AOI, five surface soil samples, five subsurface soil samples (plus one duplicate sample), and four groundwater samples were collected and submitted for laboratory analysis.

The soil and groundwater quality investigation (USACHPPM, 2009) concluded that the results of the soil and groundwater analytical data suggest there has not been a contaminant release at the Former MP-2 area. However, the four areas of historic surficial staining have not been fully evaluated.

As part of the PA/SI, four subsurface soil samples were collected and four groundwater monitoring wells were installed and sampled. All samples were



analyzed for VOCs, SVOCs, TPH-GRO, TPH-DRO, and metals. Soil does not pose a risk at this AOI. The concentrations of benzo(a)pyrene and chromium in groundwater cause excess risk at this AOI.

**Current Use:** Grassy field/vacant lot

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils and groundwater for this AOI.

#### 2.5.10.25 FGGM 96 (OU-46) – FORMER MP-3/WR-2

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study.....1996

PA/SI .....2010-2015

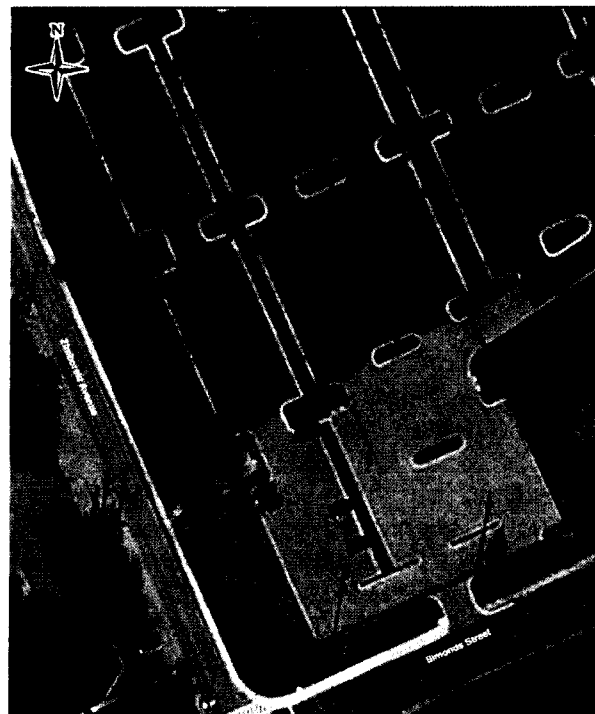
**Contaminants of Potential Concern:** VOCs, SVOCs, and metals

**Media of Concern:** Soil

**Site Location:** Grid F4, east of Zimborski Avenue, north of Simonds Street, in the southern portion of the installation.

**Site Description:** MP-3/WR-2 was identified as an AOI because it was listed as a motor pool on the circa 1952 land use map (Anon., 1952). The EPA (1996) report shows a vehicle service and storage area at this location on the 1963, 1970, 1975, and 1988 aerial photographs. The write-up for the 1995 aerial photograph specifically states "Former Vehicle Service and Storage Area" for this location. The EPA study did not report any environmental conditions for this location. There are no recent or historical indications of releases or contamination at this AOI. Also, there is no evidence of scarring, staining, or disturbance in any of the historic aerial photographs. This site may have been used as a parking lot (MP) and for washing cars (WR) for a limited time. The potential for contamination in this area is minimal. It is unknown if vehicles were serviced at any of the former buildings in this AOI. All buildings have been removed, and the soils have been excavated and graded.

**Previous Studies:** As part of the PA/SI, surface soil samples were collected and analyzed for VOCs, SVOCs, and metals.



MP-3 and WR-2  
0 30 60 120  
Feet

**Current Use:** Parking lot with grassy areas surrounding it

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils for this AOI.

#### 2.5.10.26 FGGM 96 (OU-46) – FORMER MP-4

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study.....1996

PA/SI .....2010-2015

**Contaminants of Potential Concern:** VOCs, SVOCs, and metals

**Media of Concern:** Soil

**Site Location:** Grid F5, in the southern portion of the installation, south of Dutt Road, west of Zimborski Avenue.

**Site Description:** MP-4 was identified as an AOI because it was listed as a motor pool on the circa 1952 land use map (Anon., 1952). The EPA (1996) study shows a vehicle service and storage area at this location on the 1943 and 1947 aerial photographs. Potential environmental concerns (e.g., stained soil or stressed vegetation) were not cited for this location in the EPA (1996) report.

**Previous Studies:** There were no previous samples collected at this AOI. As part of the PA/SI, five surface soil samples were collected and analyzed for VOCs, SVOCs, and metals.



MP-5  
0 25 50 100  
Feet

**Current Use:** Grassy area with several trees along the edges of the AOI

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils for this AOI.

## 2.5.10.27 FGGM 96 (OU-46) – FORMER MP-14

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study..... 1996

PA/SI..... 2010-2015

**Contaminants of Potential Concern:** VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

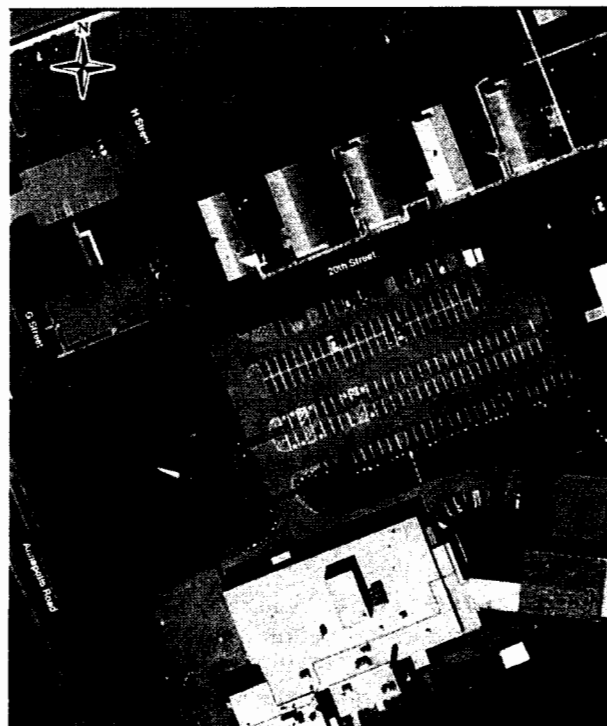
**Media of Concern:** Soil and groundwater

**Site Location:** Grid H2, in the northeastern portion of the installation, east of State Route 175 and south of 20<sup>th</sup> Street.

**Site Description:** MP-14 was identified as an AOI because it was listed as a motor pool on the circa 1952 land use map (Anon., 1952). The AOI is also identified in the EPA (1996) historic aerial photograph study of the installation, which shows a vehicle service and storage area at this location on the 1943, 1947, 1952, 1957, 1963, 1970, and

1975 aerial photographs. Five sumps are shown in the southern and eastern portions of this area on the 1957 aerial photograph (EPA, 1996). The sumps, or the area around them, were not discolored or stained. A stain is visible in the southwest portion of this area in the 1963 aerial photograph, but not in subsequent aerial photographs.

**Previous Studies:** There were no previous samples collected at this AOI. As part of the PA/SI, one subsurface soil sample was collected and analyzed for VOCs, SVOCs, TPH-DRO, TPH- GRO, and metals.



MP-14  
0 45 90 180  
Feet

**Current Use:** Parking lot and grass field

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils and groundwater for this AOI.

## 2.5.10.28 FGGM 96 (OU-46) – FORMER MP-19/WR-13

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study.....1996

PA/SI .....2010-2015

**Contaminants of Potential Concern:** VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

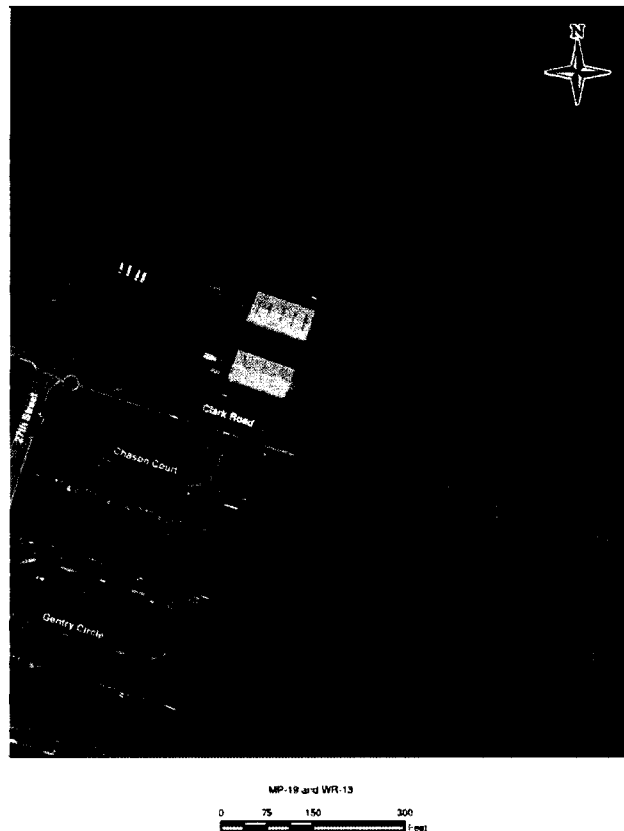
**Media of Concern:** Soil and groundwater

**Site Location:** Grid G2, in the northern portion of the installation, north of Clark Road, east of 27<sup>th</sup> Street, and west of Oliver Street.

**Site Description:** MP-19/WR-13 was identified as an AOI because it was listed as a motor pool on the circa 1952 land use map (Anon., 1952). The AOI was also identified in the EPA (1996) review, which shows a vehicle service and storage area at this location on the 1943, 1952, 1957, 1963, 1970, and 1975 aerial photographs.

**Previous Studies:** The EPA (1996) study identified a stain in the southwest portion of the AOI, stressed vegetation directly to the north, and a runoff pattern off the northwest corner of the vehicle service and storage area on the 1957 aerial photograph. Over the course of previous investigations at this AOI, six surface soil samples (plus one duplicate sample), six subsurface soil samples, and three groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, chromium elevates the risk numbers above the site-specific action levels.

As part of the PA/SI, eight subsurface soil samples were collected and eight groundwater monitoring wells were installed and sampled. All samples were analyzed for VOCs, SVOCs, TPH- DRO, TPH-GRO, and metals. Soil does not pose a risk at this AOI. The concentrations of chromium, cobalt, thallium, and iron in groundwater cause excess risk at this AOI.



**Current Use:** Buildings, parking areas, and a grass field

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils and groundwater for this AOI.



## 2.5.10.29 FGGM 96 (OU-46) – FORMER WR-3

**Regulatory Driver:** CERCLA

### Environmental Investigations:

SWMU Study ..... 1996

Historic Aerial Photograph Study ..... 1996

PA/SI ..... 2010-2015

**Contaminants of Potential Concern:** VOCs, SVOCs, and metals

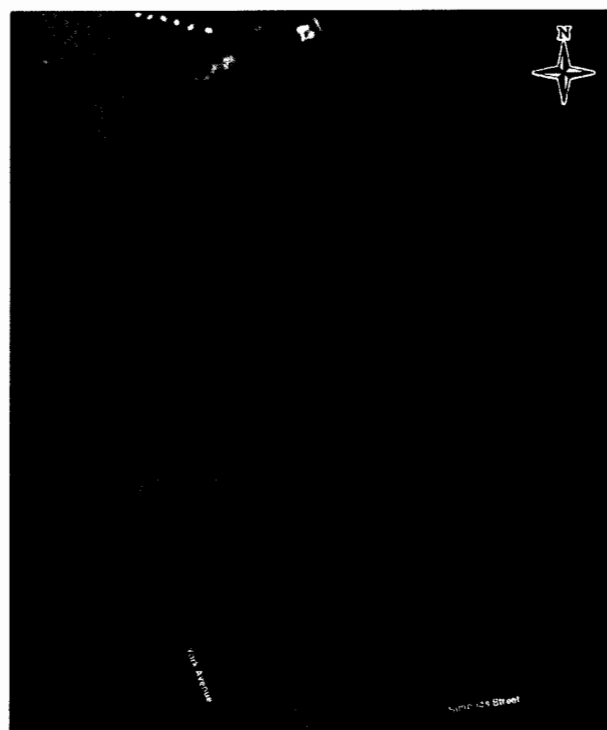
**Media of Concern:** Soil

**Site Location:** Grid F4, in the southern portion of the installation, north of Simonds Street and east of York Avenue.

**Site Description:** This WR was probably used for washing cars. Chemicals potentially used at this WR may have included soap and car wax. Neither this WR nor nearby Building 6507 were identified as SWMUs during the SWMU study (BCM, 1996), so there are no reports of hazardous chemicals being used or stored at the building or the WR. Access to WR-3 appears to be from York Avenue or along a path leading from Building 6507.

**Previous Studies:** The WR first appears on the 1943 aerial and is last seen on the 1977 aerial. By 1984, it is no longer visible. The EPA (1996) review of historic aerial photographs did not identify potential concerns at this area. No stained soils or stressed vegetation was identified on any aerial photographs.

As part of the PA/SI, four surface soil samples were collected and analyzed for VOCs, SVOCs, and metals.



0 25 50 100 Feet

**Current Use:** Undeveloped

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils for this AOI.

### 2.5.10.30 FGGM 96 (OU-46) – SCREEN REPAIR AND INDUSTRIAL SHOP, BUILDING 3000

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

SWMU Study ..... 1996

Sampling Visit ..... 2000

Data Gap Investigation ..... 2002

PA/SI ..... 2010-2015

**Contaminants of Potential Concern:** VOCs

**Media of Concern:** Soils and groundwater

**Site Location:** Grid G2, in the northeastern portion of the installation, approximately 300 feet east of the intersection of 21<sup>st</sup> and Ernie Pyle Streets.

**Site Description:** Building 3000 was identified as a SWMU because waste is systematically discarded and contained at the facility (BCM, 1996). Freon recovery and disposal also occurs. In addition, materials stored in the parking lot may have been spilled, though no spills or reported releases were identified during the SWMU study (BCM, 1996). The building is surrounded by pavement. At the time of the sampling visits, this AOI was handling chemicals properly, used secondary containment, and everything was on paved surfaces. No spills or leaks were reported, and no signs of spills or leaks were noted during site visits.

**Previous Studies:** Over the course of previous studies at this AOI, 9 surface soil samples (plus one duplicate surface soil sample) and 11 subsurface soil samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.

As part of the PA/SI, one groundwater monitoring well was installed and sampled for VOCs.



Building 3000 - Maintenance Shop  
0 25 50 100  
Feet

**Current Use:** Community

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for groundwater and soils for this AOI.

### 2.5.10.31 FGGM 96 (OU-46) – 1941 COLD STORAGE, BUILDING 4272

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study 1996 SWMU

Study ..... 1996

PA/SI ..... 2010-2015

**Contaminants of Potential Concern:** None identified

**Media of Concern:** None identified

**Site Location:** Grid G5, in the southern portion of the installation, northeast of the intersection of Rock Avenue and Leonard Wood Avenue.

**Site Description:** Building 4272 was used as a cold storage facility for the commissary from the early 1940s until 1994, and was a vacant warehouse at the time of the 1996 SWMU study. The building contained a Freon unit that was stored in a machine room. Freon 22 was used from 1981 to 1996; Freon 12 was used prior to 1981. All of the Freon has been drained from the refrigeration units. The 1996 SWMU study reported that any leaks of Freon or oils would have been contained within the building.

Building 4272 was not identified as a SWMU in the 1996 SWMU study. The SWMU study recommended NFA for this AOI.

**Previous Studies:** There have been no soil samples collected at this AOI over the course of previous studies.

As part of the PA/SI, one groundwater monitoring well was installed and sampled for Freon.



Building 4272 - Vacant Warehouse  
0 25 50 100 Feet

**Current Use:** Electrical substation

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for groundwater at this AOI.

## 2.5.10.32 FGGM 96 (OU-46) – WR AND OWS SOUTHEAST OF FORMER BUILDING 8480

**Regulatory Driver:** CERCLA

### Environmental Investigations:

SWMU Study..... 1996  
 RFA 3<sup>rd</sup> Phase..... 1999  
 SI..... 2001  
 Data Gap Investigation..... 2002  
 PA/SI..... 2010-2015

**Contaminants of Potential Concern:** None identified

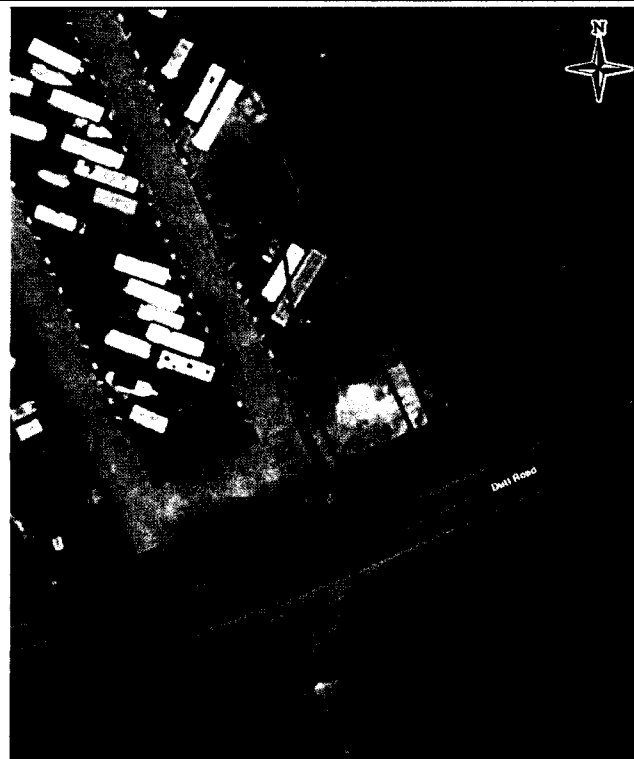
**Media of Concern:** None identified

**Site Location:** Grid F5, in the southwestern portion of the installation, north of Dutt Road.

**Site Description:** This AOI included a former WR (SWMU 111) that discharged wash water to an OWS (SWMU 110), which in turn discharged to a sanitary sewer line south of the WR. The discharge water was treated at a wastewater treatment plant. This former WR and OWS was located southeast of former Building 8480.

**Previous Studies:** Over the course of previous investigations at this AOI, 14 surface soil samples and 20 subsurface soil samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, MCPPE elevates the risk numbers above the site- specific action levels.

The PA/SI included collecting one subsurface soil sample and analyzing it for herbicides.



Building 8480 - Military Vehicle and Equipment Storage

0 25 50 100 Feet

**Current Use:** Parking lot and grass areas

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for this AOI.

### 2.5.10.33 FGGM 96 (OU-46) – POSSIBLE VEHICLE SERVICE AREA A – 1943

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study ..... 1996

PA/SI ..... 2010-2015

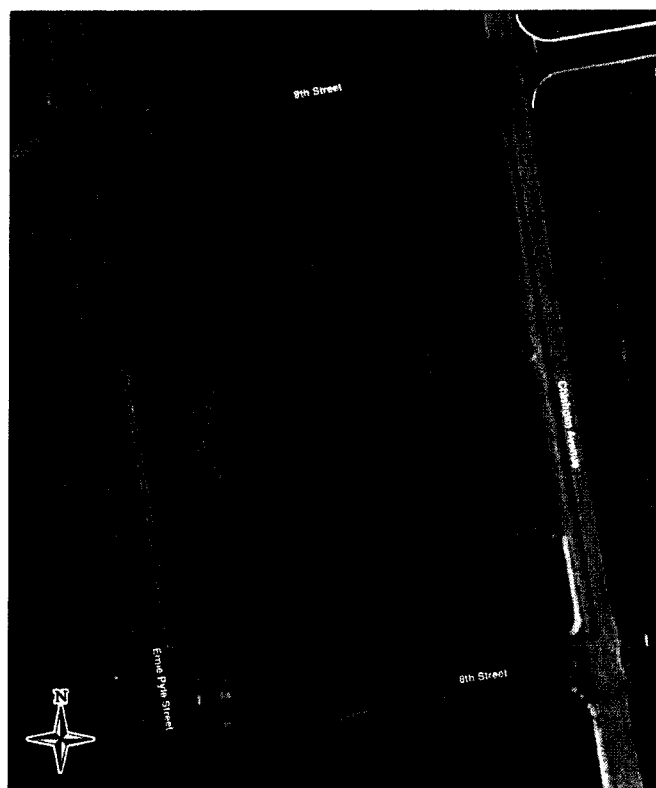
**Contaminants of Potential Concern:** VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO

**Media of Concern:** Soil and groundwater

**Site Location:** Grid H4, in the eastern portion of the installation, east of Ernie Pyle Street, west of Chisholm Avenue, south of 9<sup>th</sup> Street, and north of 8<sup>th</sup> Street.

**Site Description:** A possible vehicle service and staging area was identified at this location in the 1943, 1947, and 1952 aerial photographs (EPA, 1996). Staining was also noted in the 1943 aerial photograph. The circa 1952 land use map identifies 19 MPs on the installation, but it did not identify a MP at the location of Possible Vehicle Service Area A – 1943. According to the 1952 land use map, Buildings 2511 and 2517 were located in the northern portion of this AOI, and Buildings 2504 and 2509 were located in the southern portion of this AOI. There is ample evidence to suggest that this AOI was not used to service vehicles.

**Previous Studies:** There were no previous samples collected at this AOI. The PA/SI included soil and groundwater sampling in the areas of past staining. Three subsurface soil samples were collected and one groundwater monitoring well was installed and sampled. All samples were analyzed for VOCs, SVOCs, metals, TPH-DRO, and TPH-GRO. Soil does not pose a risk at this AOI. The concentrations of chromium in groundwater cause excess risk at this AOI.



Possible Vehicle Service Area A -- 1943  
0 35 70 140 Feet

**Current Use:** Grass field and parking lot

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils and groundwater for this AOI.

#### 2.5.10.34 FGGM 96 (OU-46) – FORMER INCINERATOR SITE – REECE ROAD

**Regulatory Driver:** CERCLA

**Environmental Investigations:**

Historic Aerial Photograph Study..... 1996

Historical Records Review..... 2006

Subsurface Soil Investigation..... 2006

PA/SI..... 2010-2015

**Contaminants of Potential Concern:** Metals, dioxins, and furans

**Media of Concern:** Soil

**Site Location:** Grid G3, in the central part of the installation, north of Reece Road and west of the intersection of Reece Road and MacArthur Road.

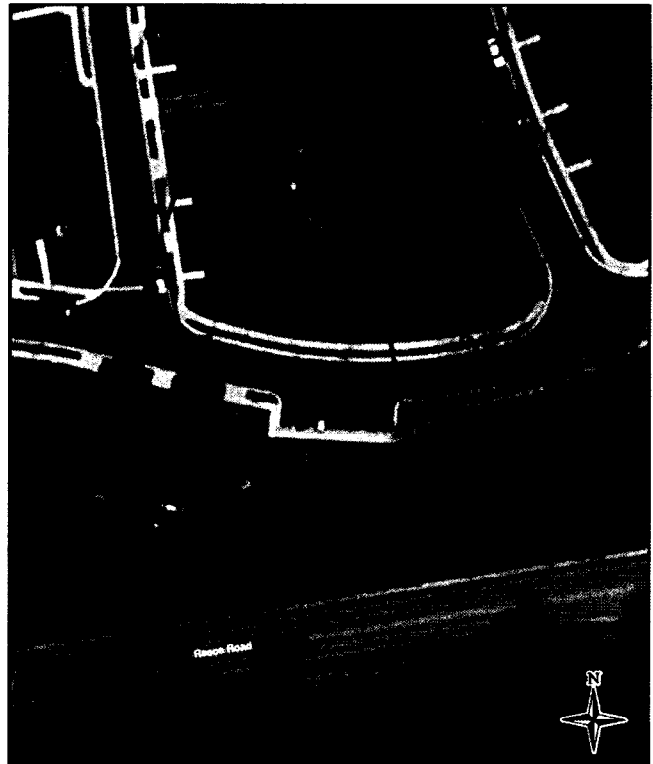
**Site Description:** This AOI was labeled “incinerator” on the 1922–1923 War Games Map (Anon., 1922) and is shown at the west end of Incinerator Road, west of the intersection of Portland Road and Jessup Road. On the 1922– 1923 map, MacArthur Road is identified as Jessup Road; the part of Reece Road east of Jessup Road is identified as Portland Road, and the part west of Jessup Road is identified as Incinerator Road.

In a 1942 map of Fort Meade (685<sup>th</sup> Engineer Company, 1942), this site is identified as the “C.W. Gas Cham” and is shown at the same location. There is no legend identifying what “C.W.” stands for.

Map 4-6 of the Historical Records Review report (Malcolm Pirnie, 2006a) incorrectly locates the site northeast of Site M Parcel 9 at the end of Reece Road, west of Cooper Avenue. The EPA (1996) study of the installation did not identify this incinerator, nor stained soils or stressed vegetation, in this area in any of the historic aerial photographs.

**Previous Studies:** Over the course of previous investigations at this AOI, three surface soil and 12 subsurface soil samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, the risk numbers are below site-specific action levels.

The PA/SI included collecting 6 surface soil samples that were analyzed for dioxins, furans, and metals.



Former Incinerator Site  
0 25 50 100 Feet

**Current Use:** Developed with housing, Larkin Road, and grass cover

**Current Status:** The Final PA/SI Report has been approved. A NFA Consensus Letter is under development.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for soils for this AOI.

## 2.5.10.35 FGGM 96 (OU-46) – MOTOR REPAIR AND GARAGE, BUILDING 4587

**Regulatory Driver:** CERCLA

### Environmental Investigations:

SWMU Study ..... 1996  
 Historic Aerial Photograph Study..... 1996  
 RFA 3<sup>rd</sup> Phase ..... 1999  
 SI ..... 2001  
 PA/SI ..... 2010-2015

**Contaminants of Potential Concern:** VOCs, metals, herbicides, and PCBs

**Media of Concern:** Groundwater

**Site Location:** Grid G4, in the southern portion of the installation approximately 150 feet southeast of the intersection of Leonard Wood Avenue and Simonds Street.

**Site Description:** Building 4587 was used as a personal vehicle repair shop and was formerly used as a MP. An oil crusher and parts washer are located in Building 4587 for vehicle and equipment maintenance activities. The crushed filters were placed in 55-gallon drums, and used oil was stored a double-walled 800-gallon AST located outside of the east wall of the building. When the 55-gallon drums became full, they were sent DRMO for disposal. The used oil and cleaner from the parts washer were also managed through the DRMO. An OWS was located in the southern end of Building 4587. The OWS accepted runoff from the floor drains within the building. Five former USTs were located at Building 4587. All five USTs were 550-gallon tanks that stored No. 2 fuel oil for heating the building.

**Previous Studies:** Over the course of previous investigations at this AOI, 6 surface soil samples, 7 subsurface soil samples, and 11 groundwater samples were collected and submitted for laboratory analysis. Based on a risk analysis of the analytical results, arsenic, MCPA, MCPP, iron, and chromium elevate the risk numbers above the site-specific action levels.

During the PA/SI, three groundwater monitoring wells were installed and sampled for VOCs, total and dissolved metals, herbicides, and PCBs. Soil does not pose a risk at this AOI. The concentrations of benzene in groundwater cause excess risk at this AOI.



Building 4587 - Equipment Storage and  
 AFFES Personnel Vehicle Repair Shop and Wash Rack  
 0 25 50 100  
 Feet

**Current Use:** Vehicle Maintenance / Leased to Firestone

**Current Status:** The Final PA/SI Report has been approved.

**Cleanup/Exit Strategy:** The Final PA/SI Report recommends NFA for groundwater and soils for this AOI. The Final PA/SI also recommended that the MDE-OCP oversee the petroleum constituents at this AOI. However, a March 2011 memo from MDE-OCP to MDE-Hazardous Waste Program-Federal Facilities Division, Building 4587 was listed as a "site where no further action is recommended by the OCP".

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